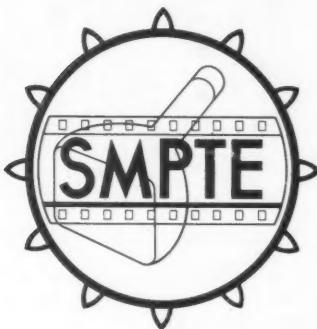


Part II to December 1982 SMPTE Journal

SMPTE Journal



**Index to Volume 91
January — December 1982**

SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS

862 Scarsdale Ave., Scarsdale, NY 10583

JANUARY

Freedom, Democracy and Communications—An Overview	FAY KANIN	3
123rd SMPTE Technical Conference and Equipment Exhibit		6
Conference Activities		8
ACVL Meeting		10
Board of Governors Meeting		12
Honors and Awards		17
The Exhibit		39
The Technical Sessions		44
Synopses of Papers		52
Harold J. Eady Biographical Sketch		94

FEBRUARY

Education and the SMPTE	HERBERT E. FARMER	139
The Mitchell Camera: The Machine and Its Makers	LAURENCE J. ROBERTS	141
Designing Broadcast Systems for High Reliability	M. W. S. BARLOW	153
Persulfate Bleach and Motion Picture Film Processes	R. C. SEHLIN	158
A New Approach to Spaceships and Aerial Scenes in Television Production	REGINALD KING	164
Printer Control by Means of Calculated Trimmer Corrections	ROBERT BOEKENS	171
The Tucson 35-mm Fisheye Projection Lens	R. A. BUCHRODER	176
The Video Disc System: A Technical Report by the SMPTE Study Group on Video Disc Recording	MICHAEL J. DOYLE	180
Herbert E. Farmer Biographical Sketch		186
A New Approach to Film Editing	ROBERT DUFFY and JOSEPH ROIZEN	198

MARCH

Preserving the Present for the Future	STEPHEN C. CHAMBERLAIN	227
An Analytical Approach to the Standardization of Videotape Recorders	JÜRGEN K. R. HEITMANN	229
A 4000-Meter Printing System	COLIN F. MOSSMAN	233
Mementos of Early Photographic Sound Recording	F. K. HARVEY	237
Predictive Coding of Composite NTSC Color Television Signals	R. C. BRAINARD, A. N. NETRAVALI and D. E. PEARSON	245
Lighting the Royal Wedding	BRYAN WILKES	253
Digital Video Coding Standards: Factors Influencing the Choice in Europe	A. H. JONES	260
Considerations in the Illumination of Photographic Darkrooms	C. BRADLEY HUNT	266
Development of the First Optical Videodisc	PHILIP RICE and RICHARD F. DUBBE	277
Lincoln L. Endelman Biographical Sketch		285

APRIL

A Look at Canada	CHARLES E. ANDERSON	331
A Retrospective Look at Canadian Participation in the SMPTE	GERALD GRAHAM	332
Futures Tense—A Perspective on Canadian Broadcasting	MURRAY H. CHERCOVER	338
The Aims and Objectives of the Technical and Production Services Branch of the National Film Board of Canada	MARCEL CARRIÈRE and LEONARD A. GREEN	341
Culture, Broadcasting, and the Canadian Identity	A. W. JOHNSON	346
A Historical Perspective of Québec's Cinema	GILLES PÉLOQUIN	353
Videotape—Past, Present, and Future	JERRY P. ZALUDEK	356
A New 16-mm Test Film for the Evaluation of Telecine Performance	RICHARD F. D. CORLEY	361
Design Considerations for Television Film Review Rooms	WALTER H. WINCHELL and MICHAEL GOURGON	365
Three-Dimensional Spectrum and Processing of Digital NTSC Color Signals	E. DUBOIS, M. S. SABRI, and J. Y. OUELLET	372
Systems Aspects of Digital Transmission of Television Signals	ERNEST J. TARNI	379
The Involvement of the NFB in the Acquisition, Storage and Preservation of Motion Picture Film	JACK PONTING	383
TVFQ-99—French Television In Québec	MARCEL CHARETTE	384
1981 Toronto Mini-Conference Program Report	KARL KRUGER	385
Frederick M. Remley, Jr. Biographical Sketch		387
Tomorrow's Television: The 16th Annual SMPTE Television Conference, February 5–6, 1982, Nashville, Tenn.		389
SMPTE's Engineering Working and Study Groups	ROLAND J. ZAVADA	404

MAY

The SMPTE's Evolving Role in Standardization	ROLAND J. ZAVADA	445
The 1981 Progress Report—Forward	WILLIAM D. HEDDEN	448
Motion Pictures		449
Television Technology		458
Photonics		463
Education		464
International		467
Dr. Roderick T. Ryan Biographical Sketch		498

JUNE

Television Systems and Slow-Scan Vidicons on NASA Space Probes	MICHAEL M. MIRABITO	542
Video-Assisted Film Editing System	MICHAEL LORAN KARY	547
A Videotape Editing System for Film Post-Production	ARTHUR SCHNEIDER and DONALD KRAVITS	552
Liquids for Use in the Full-Immersion Printing Process	RONALD N. HAIG	555
Use of Single-Ended Discharge Lamps in Modified Tungsten Halogen Luminaires	ROBERT HALL	558
M. Carlos Kennedy Biographical Sketch		564
Montreal/Toronto/Rochester Mini-Conference	WALTER H. WINCHELL	566
Comte-Rendu de la Mini-Conference Montreal/Toronto/Rochester	RICHARD WEIL-BRENNER	567
SMPTE Participates in NAB Convention		584

JULY

Considerations in the Choice of a Digital VTR Format	HIROFUMI YOSHIDA and TAKEO EGUCHI	622
NTSC Color-Field Identification	CHARLES E. SPICER	627
Triax Cameras: A Decade of Experience	ALAN J. KEIL	634
The Subjectively-Perceived Frequency Response in Small and Medium Sized Rooms	HENRIK STAFFELL and ERIK RASMUSSEN	638
A Simple Instrument for Measuring Image Steadiness in 16-mm Motion Picture Cameras	WU JI-ZONG, RICHARD N. NORMAN, and JOHN F. CARSON	644
L. Merle Thomas Biographical Sketch		652
SMPTE Board of Editors		648
L. Merle Thomas Biographical Sketch		652
SMPTE Sections Training Seminar Chicago, May 7, 1982		654

AUGUST

A Test Target Series and Procedure to Assess Dynamic Luminance Reproduction of Film by Television	ROBERT C. LOVICK	694
Quality Control of Processing and Printing Using a Low-Cost Computer	TOSHIO ISHIGURO, SUSUMU NAITO, KAZUTAKE MATSUO, and SUICHI SAEKI	700
Quality Control in an Australian Laboratory: Some Steps Toward a Computer-Aided Sensitometric Control System	DOMINIC CASE and TOM NURSE	705
Automatic Set-Up System for the BCC-20 Using Digital Video Techniques	HEINZ GRIESHABER	709
Composite Television Coding: Subsampling and Interpolation	R. C. BRAINARD, A. N. NATRAVALI, and D. E. PEARSON	717
Computer Graphics at Independent Television News	CHRIS LONG	725
Recent Developments in Studio Lighting Suspension Systems	STEVE FUTERS	730
Drive-In Theater Screen Luminance	JACK S. BEISER and HERBERT PAULL	733
Chicago Section Holds Seventh Annual All-Day Meeting, May 8, 1982		734
Howard T. La Zare Biographical Sketch		738

SEPTEMBER

A New Dimension in Broadcast Graphics	ARTHUR A. SMITH, ALTAF RAHMAN, and RENVILLE H. McMANN	774
A 13-mm Saticon Television Camera Tube for Use in Ultra-Compact Recording	E. FRASER MORRISON	789
Standardization of the Television Raster for Non-Broadcast Applications	JOHN H. HARSHBARGER	797
Television Zoom Lens With Three Integrated Zoom Ranges	KARL MACHER	808
A New Design in Magnetic (Sound) Film Transport	GUNTER KIESS	816
Main Design Aspects of YLE's (Finnish Broadcasting Co.) New Film Laboratory in Helsinki	OTTO MIKKELÄ and STIG-GÖRAN BERGHOLM	821
Julian D. Hopkinson Biographical Sketch		829
Report on International Standardization, West Berlin	ALEX ALDEN	834
SMPTE Committee on Video Recording and Reproduction Technology: Working Group on Editing Procedures	ROBERT LUND	840
Working Group on Digital Video Standards: The Current Position on the Studio Digital Video Interface	KEN P. DAVIES	852

OCTOBER

A Disc/Tape System for Time-Lapse Video	AKIRA YONEKURA	902
Programmable Test-Bed for Composite Television Coding	R. C. BRAINARD and J. V. SCATTAGLIA	906
Subjective Evaluation of Interfield-Intrafield Adaptive Prediction Coding	HITOMI MURAKAMI YOSHINORI HATORI, and HIDEO YAMAMOTO	912
Eastman Ektachrome 7251	B. O. BLACK, W. G. DOODY, R. J. GUERIN, and H. R. McNAIR	919
Eastman Color High-Speed Negative Film 5293	GLENN L. KENNEL, RICHARD C. SEHLIN,	
..... F. R. REINKING, S. W. SPAKOWSKY, and G. L. WHITTIER		922
An Advanced Computer-Assisted Sound Mixing System for Film and Video Post-Production	M. H. JONES, D. A. TILSLEY, and B. J. ROCHE	931
Cameras and Systems: A History of Contributions From the Bell & Howell Co. (Part I)	LAURENCE J. ROBERTS	934
The Development of Stereo Magnetic Recording for Film (Part I)	HAZARD E. REEVES	947
Robert Shoberg Biographical Sketch		954

NOVEMBER

Cinema Sound Reproduction Systems: Technical Advances and System Design Considerations	MARK ENGBRETSON and JOHN EARGLE	1046
Kodak Persulfate Bleach for Process ECN-2	JULIANNE F. CRISANTE and WAYNE A. SZAFRANSKI	1058
The Marconi B3410 Line Array Teletext	RAY MATCHELL	1066
The VHD Videodisc System	TOSHIYA INOUE, TSUNEYOSHI HIDAKA, and VINCENT ROBERTS	1071
Quantization Effects on Differential Phase and Gain Measurement	FREDERICK A. WILLIAMS and RICHARD K. OLSEN	1077
Cameras and Systems: A History of Contributions From the Bell & Howell Co. (Part II)	LAURENCE J. ROBERTS	1079
The Development of Stereo Magnetic Recording for Film (Part II)	HAZARD E. REEVES	1087
Calvin M. Hotchkiss Biographical Sketch		1091
Depths of Field (technical note)	DENNIS COUZIN	1096
Nordiska Film/TV Unionen, NFTU: The Nordic Film and Television Society (tutorial paper)	OTTO E. MIKKELÄ	1100
Highlights of the 17th Annual SMPTE Television Conference		1106
SMPTE Committee on Video Recording and Reproduction Technology		1112
Letters to the Editor		1108

DECEMBER

Satellite Broadcasting in Canada	O. S. ROSCOE	1142
A High Resolution Tri-Electrode Pickup Tube Employing a Se-As-Te Amorphous Photoconductor	A. SASANO, T. NAKANO, and E. MARUYAMA, K. TADA, and T. AOKI	1148
HDTV Standards Considerations for Electronic Cinematography and Post-Production	KERNS H. POWERS	1153
Editing Digital Audio Signals in a Digital Audio Video System	ROBERT J. YOUNGQUIST	1158
Eastman Color Print Film 5384	K. J. CARL, J. W. ERWIN, S. J. POWELL, F. R. REINKING,	
..... R. C. SEHLIN, S. W. SPAKOWSKY, W. A. SZAFRANSKI, and R. W. WIEN		1161
Sound Transmission Through Perforated Screens	MICHAEL RETTINGER	1171
Ruggedized Double Seal for Use in a 6000 Watt Lamp	WILLIAM BAMBERG	1175
A Proposal for the Measurement of the Frictional Properties of Raw Film Stock		
..... WERNER EILHAMMER and MAX ROTTHALER (reprinted from <i>BKSTS Journal</i> , Feb. 1982)		1178
Graphics Go Electronic — The CBS Experience (tutorial)	R. L. STOW	1186
William D. Hedden Biographical Sketch		1190
SMPTE Television Video Technology Committee: Report on Standardization of Monitor Colorimetry by SMPTE	CHARLES W. RHODES	1199
Reborts on IBC 82	JOSEPH ROIZEN	1201
Emmy Awards		1210

INDEX TO SUBJECTS — January–December 1982 • Volume 91

ABSTRACTS, OTHER JOURNALS

Abstracts of papers having relevant interest published in other scientific and technical journals: March, p. 308

ACOUSTICS

Subjectively-perceived frequency response, *Staffeldt and Rasmussen*, July, 638

APPARATUS

Magnetic (sound) film transport, *Kiess*, Sept., 816

AUDIO

Editing digital audio signals in a digital audio video system, *Youngquist*, Dec, 1158

AWARDS AND HONORS

Engineering Emmy Awards presented Sept. 29, Dec, 1210

Joseph A. Flaherty elected fellow of IEE, Dec, 1212

BIOGRAPHICAL

Calvin M. Hotchkiss SMPTE Chairman Board of Editors, *Hargrave*, Nov, 1091

Dorothy Smith—Advertising and Exhibits Manager, July, 660

Dr. Roderick T. Ryan SMPTE Vice-President for Motion Picture Affairs 1979-1981, *Hargrave*, May, 498

Frederick M. Remley, Jr. SMPTE Vice-President for Educational Affairs 1982-1983, *Hargrave*, Apr, 386

Herbert E. Farmer SMPTE Vice-President for Educational Affairs 1980-81, Feb, 186

Howard T. La Zare SMPTE Vice-President for Motion Picture Affairs 1982-1983, Aug, 738

Julian D. Hopkinson SMPTE Treasurer 1981-1982, *Hargrave*, Sept, 829

Lincoln L. Endelman SMPTE Vice-President for Photonic Affairs 1980-1981, *Hargrave*, Mar, 285

L. Merle Thomas SMPTE Vice-President for Television Affairs 1982-1983, July, 652

Lynette Robinson named SMPTE Executive Secretary, Aug, 752

M. Carlos Kennedy SMPTE Secretary 1982, *Hargrave*, June, 564

Pablo Weinschenk-Tabernero, Feb, 191

Robert Shoberg SMPTE Vice-President for Photonic Affairs 1982-1983, *Hargrave*, Oct, 954

SMPTE Board of Editors 1982-1983, July, 648

BOOK REVIEWS, REPORTS

Animation: A Reference Guide, Thomas W. Hoffer, Apr, 426

Audio-Visual Equipment Directory 1982-83, National Audio-Visual Association, Sept, 870

Audiovisual Market Place 1982, R. R. Bowker Co., June, 588

Brief items of timely interest: February, p. 206; April, p. 429; June, p. 588; September, p. 870, Mar, 0

1982 Catalog of American National Standards, American National Standards Institute, Inc., Sept, 870

The Communications Standard Dictionary, Martin Welk, Dec, 1220

Communicators Catalog From Kodak, Nov, 1115

Data Transmission: Analysis, Design, Applications, Dogan Tugay and Osman Tugay, Feb, 204

Designing Audio-Visual and Video Facilities, Nov, 1115

Digital Television: Bandwidth Reduction and Communication, Richard H. Stafford, Jan, 126

Editing Systems (Videotape) U.S. Market Opportunities, Strategic Inc., Apr, 426

Flat Panel Display, International Resource Development, Mar, 306

HMI: For Best Performance in the Role of the Sun, Osram Corp., Dec, 1220

Home Video Yearbook 1981-1982, Knowledge Industry Publications, Inc., Apr, 429

How to Produce an Effective TV Commercial, Hooper White, Feb, 204

International Film & TV Year Book, Kemps Publishing Group, Sept, 870

The International Video Yearbook, Blandford Press, Dec, 1220

Introduction to AV for Technical Assistants, Albert Casciero and Raymond G. Roney, Apr, 426

Lowel's Light News, Nov, 1116

McGraw-Hill Encyclopedia of Science and Technology, 5th ed., McGraw-Hill, Sept, 870

A Method for Assessing the Quality of Daylight Simulators for Colorimetry, CIE Publication No. 51, Apr, 426

A Method for Assessing the Quality of Daylight Simulators for Colorimetry, CIE Publication No. 51, June, 588

Methods of Characterizing the Performance of Radiometers and Photometers, CIE Publication 53, Sept, 870

Microcomputer Systems, Ivan Flores and Christopher Terry, Sept, 870

Microprocessor: Applications Handbook, David F. Stout, Mar, 306

Microprocessor Development and Development Systems, Vincent Tseng, Dec, 1220

New York Production Manual, Gale Research Co., June, 588

Optical Fiber Systems: Technology, Design and Applications, Charles K. Kao, June, 588

PCM and Digital Transmission Systems, Frank F. E. Owen, June, 588

The Pro-Audio Yearbook 1982/83, Link Magazines (Croydon) Ltd., Dec, 1220

The Proceedings of the 19th Session of the International Commission on Illumination, CIE Publication No. 50, Apr, 426

The Reality of TV Resolution Specifications, Visual Information Institute, Inc., Sept, 870

Satellite Distribution: The Next Revolution in Television, Andrew F. Inglis, Nov, 1115

SMPT/EU Longitudinal and Vertical Interval Time Code, EECO Inc., Sept, 870

Television Equipment Specification Service, Knowledge Industry Publications, Inc., June, 588

The Video Age: Television Technology and Applications in the 1980's, Mark Schubin, Dec, 1218

Video Register, 4th ed., Knowledge Industry Publications, Inc., Feb, 204

Videotape Editing: Communicating With Pictures and Sound, Michael D. Shetter, Sept, 870

BOOKS, BOOKLETS, BROCHURES

Brief items of timely interest: February, p. 206; April, p. 429; June, p. 588; September, p. 870

CAMERAS

Cameras and systems: a history of contributions from the Bell & Howell Co. (part I), *Roberts*, Oct, 934

Cameras and systems: a history of contributions from the Bell & Howell Co. (part II), *Roberts*, Nov, 1079

Measuring image steadiness in 16-mm motion-picture cameras, *Ji-Zong, Norman and Carson*, July, 644

Mitchell cameras, *Roberts*, Feb, 141

Triax cameras: decade of experience, *Keil*, July, 634

CANADA

Culture, broadcasting, Canadian identity, *Johnson*, Apr, 346

Future tense: a perspective on Canadian broadcasting, *Chercover*, Apr, 338

Historical perspective of Quebec's cinema, *Péloquin*, Apr, 353

Involvement of the NFB in the acquisition, storage, and preservation of motion picture film, *Ponting*, Apr, 382

A look at Canada, *Anderson*, Apr, 331
 National Film Board of Canada, *Carrière and Green*, Apr, 341
 Retrospective look at Canadian participation in the SMPTE, *Graham*, Apr, 332
 Satellite broadcasting in Canada, *Roscoe*, Dec, 1142
 Television film review rooms, *Winchell and Gourgon*, Apr, 365
 Test film for the evaluation of telecine performance, *Corley*, Apr, 361
 TVFO-99: French television in Quebec, *Charrette*, Apr, 384
 Videotape: past, present, and future, *Zaludek*, Apr, 356

CINEMATOGRAPHY

Depths of field, *Couzin*, Nov, 1096
 HDTV standards considerations for electronic cinematography and post-production, *Powers*, Dec, 1153

CINERAMA

The development of stereo magnetic recording for film (part I), *Reeves*, Oct, 947
 The development of stereo magnetic recording for film (part II), *Reeves*, Nov, 1087

COLORIMETRY

SMPTE Television Video Technology Committee: report on standardization of monitor colorimetry by SMPTE, *Rhodes*, Dec, 1199

COMPUTER GRAPHICS

Broadcast graphics, *Smith, Rahman and McMann*, Sept, 774
 Computer graphics at Independent Television News, *Long*, Aug, 725

DIGITAL TECHNOLOGY

Automatic set-up system for the BCC-20 using digital video techniques, *Griesshaber*, Aug, 709
 Standardization of digital videotape recorders, *Heilmann*, Mar, 229
 Working group on digital video standards: the current position on the studio digital video interface, *Davies*, Sept, 852

EDITING

Editing digital audio signals in a digital audio video system, *Youngquist*, Dec, 1158
 Film editing, *Duffy and Roizen*, Feb, 198
 SMPTE Committee on video recording and reproduction technology: working group on editing procedures, *Lund*, Sept, 840
 Video-assisted film editing system, *Kary*, June, 547

EDUCATION

Education and the SMPTE, *Farmer*, Feb, 139

ERRATA

Historical Television Equipment Exhibit, Jan., 37, May, 518

July, 1982, *Journal*, p. 651, Nov, 1116
 May 1982-Part II (*Directory for Members*) page 28, description of the Journal Award was incorrectly published. Correct version given on page 679, July, 1982, July, 679
 May 1982, Part II, pp. 154-155 of the 1982 *Directory for Members*, Toronto Section, July, 678
SMPTE Journal APRIL 1982, page 358, wrong caption. Correct caption given on page 679, July, 1982, July, 679
Zoom Lenses - Their Development Sept. 1981 issue, Jan, 116

FILM

General

Eastman color high-speed negative film 5293, *Kennel, Sehlin, Reinking, Spakowsky and Whittier*, Oct, 922
 Eastman color print film 5384, *Carl, Erwin, Powell, Reinking, Sehlin, Spakowsky, Szafranski and Wien*, Dec, 1161
 Persulfate bleach: film processes, *Sehlin*, Feb, 158
 Proposal for the measurement of the frictional properties of raw film stock, *Eilhamer and Rotthaler*, Dec, 1178

Storage and Retrieval

Involvement of the NFB in the acquisition, storage, and preservation of motion picture film, *Ponting*, Apr, 382

Test

Test film for the evaluation of telecine performance, *Corley*, Apr, 361

FILM POST-PRODUCTION

Videotape editing system for film post-production, *Schneider and Kravits*, June, 552

GENERAL

New faces at the *SMPTE Journal*, Dec, 1213

HISTORICAL

Preserving the present for the future, *Chamberlain*, Mar, 227

HISTORY

Cameras and systems: a history of contributions from the Bell & Howell Co. (part I), *Roberts*, Oct, 934
 Cameras and systems: a history of contributions from the Bell & Howell Co. (part II), *Roberts*, Nov, 1079
 Development of stereo magnetic recording for film (part I), *Reeves*, Oct, 947
 Development of stereo magnetic recording for film (part II), *Reeves*, Nov, 1087
 Early photographic sound recording, *Harvey*, Mar, 237
 First optical videodisc, *Rice and Dubbe*, Mar, 277
 Involvement of the NFB in the acquisition, storage, and preservation of motion picture film, *Ponting*, Apr, 382

A look at Canada, *Anderson*, Apr, 331
 Retrospective look at Canadian participation in the SMPTE, *Graham*, Apr, 332
 Triax cameras: decade of experience, *Keil*, July, 634
 Videotape: past, present, and future, *Zaludek*, Apr, 356

LABORATORIES

International

YLE's (Finnish Broadcasting Co.) new film laboratory in Helsinki, *Mikkela and Bergstrom*, Sept, 821

LABORATORY PRACTICE

General

Illumination of photographic darkrooms, *Hunt*, Mar, 266

Printing

Full-immersion printing process, *Haig*, June, 555
 4000-Meter printing system, *Mossman*, Mar, 233

Printer control by means of calculated trimmer corrections, *Boeykens*, Feb, 171

Processing

Kodak persulfate bleach for process ECN-2, *Crisante and Szafranski*, Nov, 1058
 Persulfate bleach: film processes, *Sehlin*, Feb, 158

Quality Control

Quality control in an Australian laboratory: some steps towards a computer-aided sensitometric control system, *Case and Nurse*, Aug, 705
 Quality control of processing and printing using a low-cost computer, *Ishiguro, Naito, Matsuo and Saeki*, Aug, 700

LENSES

Television zoom lens with three integrated zoom ranges, *Macher*, Sept, 808
 Tucson 35-mm fisheye projection lens, *Burchroeder*, Feb, 176

LETTERS TO THE EDITOR

Re: "A history of British television", Nov, 1108
 Re: "Mementos of early photographic sound recording", Nov, 1108
 Reply: E. D. Hendry, W. E. Turk, Nov, 1108
 Reply: F. K. Harvey, Nov, 1108
 Reply: Glenn E. Matthews, Nov, 1108

LIGHTING

Drive-in theater screen luminance, *Beiser and Paull*, Aug, 733
 Lighting the royal wedding, *Wilkes*, Mar, 253
 Recent developments in studio lighting suspension systems, *Futers*, Aug, 730
 Ruggedized "double seal" for use in a 6000-watt lamp, *Bamberg*, Dec, 1175
 Single-ended discharge lamps in modified tungsten halogen luminaires, *Hall*, June, 558

MOTION PICTURE PRODUCTION

Historical perspective of Quebec's cinema, *Péloquin*, Apr, 353

NEW PRODUCTS

Amplifier

NTSC video processing amplifier, Canterbury Redman Technologies Corp., Mar, 310

Animation

Automator System I, Photographic Equipment Service, Inc., Sept, 878

Computerized tracking camera system, Elion, Oct, 1034

Computerized tracking camera system for animation applications, Elion, Apr, 434

Follow Focus System kit form, Elion, Feb, 214

InteLens™, Animation Video, Feb, 212

Mikrofocus computerized tracking focus, Mikrolab, Dec, 1236

Mirage, "the ultimate illusion", MCI/Quantel, Aug, 761

Optical animation camera system II, Optical Art Camera Corp., Dec, 1236

VAS III video animation system, Lyon Lamb, July, 666

Video and film camera stand, Pioneer Marketing Corp., Feb, 216

Apparatus

Newsmatte, VGR Corporation, Sept, 883

Power amplifier, BGW Systems, Inc., Sept, 879

Spectrodiometer, Photo Research, Sept, 883

Time code and generator, Sony Broadcast Products Co., Sept, 883

Videotape evaluator, Quanta Corp., Sept, 879

Audio

Digital audio synchronizer, MCI/Quantel, Aug, 757

Dynafex D-2B, a single-ended noise reduction system, MICMIX Audio Products, July, 666

Four-track mixer, Tascam, July, 676

High grade videocassettes, Fuji Magnetic Tape Div., July, 675

Model 3050 Digital Delay, Fostex Corporation of America, July, 672

Portable mixer, Sony Professional Audio Division, Aug, 759

Portable VHS recorder with XLR connectors for audio, Hitachi Denshi America Ltd., July, 675

Recorder, stereo recordings synchronized to film, Studer Revox America, July, 662

51-Series console, Neve Electronics International, July, 677

Sound mixing console, Soundcraft Electronics USA, July, 677

Tascam M16, 16-Track Mixing Console, TEAC Corp. of America, July, 662

T-Audio tape recorder, Nagra-Kudelski Group of Switzerland, July, 662

Theatrical sound products, Cerwin-Vega, July, 677

Three tape recorder/reproducers, Tascam, July, 675

Unisyn, synchronizer and video postproduction, Ampex Corp., July, 662

Batteries

Battery belts, Portable Energy Products, Oct, 1035

Universal Fast Charger, Cine 60 Inc., Aug, 762

Cameras

Camera for ENG/EFP, Panasonic, Aug, 754

Camera Mount and Camera Tripod for video cameras, Shinko Electric Co., Ltd., Oct, 1026

Camalite, The Great American Market, Sept, 882

Color TV camera, Model HK-322, Ikegami Electronics (USA), Nov, 1120

Color video sound camera, Canon USA, Inc., Oct, 1028

The Datacopy C322 Filmless CCD Array Camera, Datacopy Corp., July, 662

Digital command unit, the DCU-300, Sony Broadcast Products Co., Nov, 1124

EC-35 electronic cinematography camera, Ikegami Electronics (USA), Sept, 879

ENG/EFP camera, Sharp Electronics Corp., Aug, 754

ENG/EFP color camera, TK-710, RCA Commercial Communications Systems Division, Aug, 755

ENG/EFP TV camera, Ikegami Electronics (USA), Inc., Oct, 1022

ENG/VCR color TV camera system, Ikegami Electronics (USA), Inc., Sept, 878

Environmental housing, Optical & Textile Ltd., Dec, 1228

Fluid head film and video cameras, KB Systems, July, 675

Gitzo head video and cine cameras, Karl Heitz, July, 675

GP-6M portable color video camera, Hitachi Denshi America, Ltd., Sept, 880

GSMO viewfinder, Cinema Products Corp., Sept, 881

Innovative Television Equipment, Nov, 1128

Microprocessor-controlled camera, Ikegami Electronics (USA), July, 672

Miller fluid heads, R. E. Miller, Pty. Ltd., Dec, 1234

New accessory options for Hawkeye cameras, RCA Commercial Communications Systems Division, Oct, 1022

New generation GSMO 16-mm cassette-load production camera, Cinema Products Corp., Oct, 1020

New single tube color video camera, Sony Video Communications Division, Feb, 217

Night viewing device, Image Devices International, Aug, 761

Photo-Sonics high speed camera, Instrumentation Marketing Corp., Aug, 756

Power supply, Anton/Bauer, Inc., Sept, 881

Pro video tripod, O'Connor Engineering Laboratories, Aug, 760

Recorder-camera, Robert Bosch, Aug, 754

Slimgard headset, Television Equipment Associates, Dec, 1228

Studio television camera, Robert Bosch GmbH, July, 672

Three-tube camera, Sony Broadcast Products Co., Sept, 880

Three-tube color camera, US JVC Corp., Oct, 1028

TK-47B automatic color television camera, RCA Commercial Communications Systems Division, Aug, 755

TKP-47 camera, RCA, Dec, 1234

Two portable color video cameras, Hitachi Denshi America, Ltd., July, 660

Universal fluid head, Bush and Millimaki Services, Feb, 216

Video assist for Arri cameras, Fries Engineering, July, 675

Video/audio microwave transmitting/receiving system, Ikegami Electronics (USA), Aug, 756

Video camera, Hitachi Denshi America, Ltd., Aug, 754

Video camera, PC-K003A, Pentax Corp., Sept, 881

Video color camera, Panasonic, Sept, 878

Character generator

Post-production character generator, Videomedia Inc., Mar, 312

Digital

Co-Ax digital remote control system, ENG/EFP video cameras, Cinema Products Corp., Mar, 310

PAL digital frame synchronizer, Harris Video Systems, Mar, 312

Real time digital video image processor, Quantex Corp., Mar, 310

Digital Effects

Digital Video Effects system, NEC America, Inc., Sept, 882

Digital Store

IRIS II digital still store system, Harris Video Systems, Oct, 1028

Digital techniques

Digital video system for the simultaneous transmission of two video signals on a single conventional video channel, NEC America, Inc., Feb, 210

Editing

Code Phase Corrector, Gray Engineering Laboratories, June, 600

Editing system, Ampex Corp., Aug, 757

Film editing system, Harris Video Systems, Mar, 314

Film editing system, Research Technology International, Nov, 1124

Home video editor, Canon USA, Inc., Nov, 1128

Microprocessor-based videotape editor, US JVC Corp., June, 600

The U/F-35 editing console, Cinema Products Corp., Oct, 1020

Editors

Editor with programmable event sequences, Sony Video Products Co., June, 596

Microprocessor-based VE-90 videotape editor, Professional Video Division of US JVC Corp., July, 660

Previewer, Cinescan, Research Technology International, July, 676

Fiber Optics

Fiber optic transmission products, The Grass Valley Group, Inc., Aug, 762

Film

Film care system, Research Technology International, Oct, 1034

General

Battery Packs, Frezzolini Electronics, June, 608

Digital broadcast delays, Eventide Clockworks, Inc., Oct, 1035

A digital stereo "profanity" delay line, Klark-Teknik Research Ltd., Oct, 1034
Filter (CTF) for use in a medical x-ray fluoroscopy television chain, Thomson-CSF Broadcast, Inc., Nov, 1128
GenLock unit, Lenco, Inc., Electronics Division, June, 604
Head-cleaning cassettes, Fuji Magnetic Tape Division, July, 666
High-speed power rewinder, Research Technology International, July, 677
Liquid crystal display, EEV Inc., Dec, 1228
On-Board ac Adapter, Frezzolini Electronics Inc., June, 604
Tiffen Universal Rotating Matte Box, Tiffen Manufacturing Co., June, 608
Ultrasonic film cleaning machines, Lipsner Smith Co., July, 677

Generators

Microgen character generator, System Concepts, Inc., June, 600
Microprocessor-controlled signal generators, Marconi Instruments, June, 602
Special effects generator, Sony Video Communications Division, June, 602
Sync/test generators, Leader Instruments Corp., Mar, 318

Graphics System

Chyron IV graphics system, Chyron Corp., Mar, 314

Instruments

50 MHZ dual trace, delayed time base portable oscilloscope, Leader Instruments Corp., Mar, 316
OS300, a 20-MHz dual trace portable oscilloscope, Gould Inc., July, 670
Oscilloscope, Gould Inc., Instruments Division, Nov, 1130
Oscilloscope, Leader Instruments Corp., Oct, 1035
Oscilloscopes, Leader Instruments Corp., Aug, 760
Spectrum analyzer system, Hewlett-Packard, July, 671
Time compression/expansion system, Eventide Clockworks Inc., July, 676
Vectorscope with phase-amplitude targets generated by the CRT, Leader Instruments Corp., July, 670
Waveform recorder, Hewlett Packard, July, 676

Laboratory Practice

Chemelec Cell, Rank Precision Industries Inc., Apr, 432

Lenses

Broadcast lens, Canon U.S.A., Aug, 758
Broadcast lens, Canon U.S.A., Oct, 1032
Lens from Schneider for ENG/EFP handheld cameras, Tele-Cine Corp., June, 608
New prime lens, Cinema Products Corp., Aug, 758
Schneider TV zoom lens, Tele-Cine Corp., July, 673
Schneider zoom lens, Tele-Cine Corp., Aug, 758
Studio zoom lens, Fujinon Optical Inc., Feb, 217
Teweet viewer, Schneider Corp. of America, July, 672
Wide-angle lens attachments, Film/Video Equipment Service Co., Aug, 758
Zeiss Macro Zoom lens, Arriflex Corp., Nov, 1128
Zoom lens for ENG cameras, Canon U.S.A., Oct, 1032

Lighting

Lighting control kit, Matthews Studio Equipment, Inc., Aug, 760
Mantrix™ portable lighting control console, Strand Century, July, 674
Mitalux L131, handheld follow spotlight, Bardwell & McAlister, Inc., June, 608
1000-W DP light, Lowell-Light Manufacturing, Inc., July, 673

Monitors

Barco color monitors, Elector, Sept, 881
Color picture monitor, Tektronix Europe B.V., Dec, 1236
Color television monitor, US JVC Corp., July, 672
Color video monitors, Panasonic Video Systems Division, Mar, 318

Color video monitor, Video Communications Div., Sony Communication Products Co., Nov, 1128

High resolution broadcast color TV monitors, Ikegami Electronics (USA), Inc., Sept, 881

MED-1900 color monitor for use in medical environments, Sony Video Products Co., June, 602

Monochrome video monitor, the Slim Line, Lenco, Inc., June, 604

Trinitron color video monitor, Sony Video Communications Division, June, 604

Noise reduction

dbx Type I noise reduction system, dbx, Inc., Mar, 316

Multitrack noise reduction unit, Dolby Laboratories, Mar, 318

Power Supplies

Zip-Pak ac power supply, Cinema Products Corp., Aug, 759

Power Supply

Power supply unit, Microtest, Ltd., Mar, 318

Projectors

Aquastar IIIB large-screen video projector, Electronic Systems Products, July, 670

International 104 portable motion picture projector, International Projector Company, July, 670

JAN Telecine Projectors, International Projector Co., July, 670

Overhead projector, Projection Optics Co., Dec, 1232

Recorders

Portable videotape recorders, Panasonic, Aug, 755

Videotape recorder, VPR-80, Ampex Corp., Aug, 756

Satellites

Satellite earth stations, Channel Master, Div. of Avnet, Inc., Oct, 1028

Signal Generator

Modular test signal generator, ASACA, Feb, 210

Sound

Audio recorder, Ampex Corp., Feb, 217

Microphone mixer, Shure Brothers Inc., Feb, 214

Reverberation system, AKG Acoustics, Inc., Dec, 1228

Special Effects

Color special effects generator, US JVC Corp., Nov, 1124

Special effects camera stand, Neilson-Hordell Ltd., Nov, 1120

Switchers

Multiplexer, Redlake Corp., Aug, 759
Production switcher, Grass Valley Group, Inc., Sept, 883

TEN-X routing switcher, Grass Valley Group, Inc., Aug, 758

Transparent digital framestore synchronizer, Harris Video Systems, Aug, 759

Telecine

Marconi B3410, a solid state telecine machine, Marconi, Communication Systems Ltd., Apr, 432

The MKIIC telecine, Rank Cintel, Dec, 1234

Telecine camera, Ikegami Electronics, Aug, 754

Telecine camera system, RCA Commercial Communications Systems Div., Aug, 754

Television

Closed circuit television system, Cohu, Inc., Dec, 1232

Color television modulator for cable TV, RCA Cablevision Systems, Oct, 1032

12-Conductor TV camera cable for ENG/EFP applications, Belden Corp.'s Electronic Division, Feb, 212

Digital Mark IIIIC telecine, Rank Precision Industries, July, 674

Film-chain television camera for on-air or film-to-tape transfer, Ikegami Electronics (USA) Inc., Feb, 214

Flair graphics systems, Logica Ltd., July, 673

Portable television field production system, ASACA, Feb, 214

Projection TV systems, Zenith Radio Corp., Oct, 1024

RECAM integrated VTR and camera system, Panasonic Video Systems, Oct, 1026

Three-tube ENG/EFP camera, Harris Corp., Broadcast Products Div., Oct, 1024

TV Transmission System, American Laser Systems, July, 671

Videocassette recorder, Panasonic Video Systems, Oct, 1024

Video delay lines, Matthey Printed Products Ltd., Dec, 1232

Video teleconferencing system, NEC America, Inc., June, 596

Television

TV signal distribution amplifier, Ikegami Electronics (USA), Inc., Oct, 1026

Test Equipment

Zone Plate Generator range of test signals, Television Equipment Associates, July, 674

Tests and Measurements

High-speed film recording system for instant color motion analysis, MA Systems Co., Nov, 1124

Time Base Corrector

BVT-800 digital time base corrector, Sony Video-Products Co., Apr, 432

Video signal processor, Adda Corp., Aug, 760

Transcoders

Digital SECAM to PAL transcoder, British Broadcasting Corporation, June, 610

Video

Digital video system, NEC America, Aug, 757

Video Animation

Video animation, using a videotape recorder, 3M's Professional Audio/Video Equipment Project, Feb, 210

Videocassettes

Programmable Video Director, front-loading videocassette recorder, Zenith Radio Corp., July, 666

Videocassette recorder, US JVC Corp., Nov, 1126

Videocassettes, Fuji Photo Film U.S.A., Inc., Aug, 762

Videocassette Systems

Portable VHS videocassette recorder, Sharp Electronics Corp., June, 596

Time lapse recorder/player, Panasonic Systems Division, June, 596

Type 5 series of U-matic videocassette recorders, Sony Video Products Co., June, 596

Videocassette player and recorder, US JVC Corp., June, 596

Videotape

Television Equipment Associates Inc., Nov, 1128

Videotape recorder, Robert Bosch, Sept, 880

Videotape Recorders

Automated Broadcasting System, H. A. Soltec Ltd., July, 662

BETA, VHS, and 3/4-in duplication systems, Video Automation Systems, Inc., July, 662

VTR

BVW-1 Betacam, Sony Corp. of America, Feb, 216

NEWS

Survey, 3M's magnetic Audio/Video Products Division, Apr, 416

Awards and Honors

The 1982 Geoffrey Parr Award presented to Marconi Communication Systems, Nov, 1112

Robert M. Smith honored by BKSTS, Sept, 860

Sony Communications Products Co. two Golden Reel Merit Awards at the ITVA Awards Ceremony, Nov, 1112

Education

American Archives of the Factual Film, Iowa State University received grant, June, 586

BBC's engineering training department new method for training students television engineering, Sept, 860

Cinema/Television Division, USC construction of Cinema-Television Center, June, 586

Colorimetry and the Eye education course, May, 524

A course in geometric optics taught by Milton Laikin at University of California Los Angeles, Dec, 1213

Independent Broadcasting Authority and Oracle Teletext Ltd. sponsor a research study, Apr, 416

RCA making \$50,000 grant to help establish the Frank Stanton Professorship at Harvard University's John F. Kennedy School of Government, May, 524

Educational

The Camera Mounting Plates Working Group of PMPEA, Nov, 1112

Entertainment Focus research service, Aug, 753

National Communications Day held October 6 at Newton, Mass., Jan, 120

Optical Science and Engineering short course, Aug, 753

Paramount Studios donated historic photographic and printed materials to the Margaret Herrick Library of the Academy of Motion Picture Arts and Sciences, Jan, 122

The Tapehouse Editorial Co. film-to-tape transfer for the International Museum of Photography at George Eastman House, Nov, 1112

Educational Activities

Color, sound and wide screen: a popular history of film, presented by the Academy of Motion Picture Arts and Sciences, Jan, 118

General

The British Virgin Islands established film promotion office, Apr, 416

CBS and NHK present high definition television and electronic cinema demonstrations, June, 585

Continental Microwave Ltd., Dunstable, England supply television transposer equipment for IBA, June, 586

FCC approved building 79 low-power TV stations, June, 586

Plans to establish a motion picture and television center in Montego Bay, Jamaica announced by the Prime Minister of Jamaica, June, 586

Preservation of CBC archival documents, May, 524

Professional Motion Picture Equipment Association elected its 1982-1983 officers board members, July, 658

San Francisco's newly formed chapter of the AICP announced election of a slate of officers, June, 586

A stainless steel sculpture entitled Filmstrip U.S.A. unveiled in Culver City, Calif., Feb, 192

Stephen Low and the National Film Board of Canada won the Best of Show Award in the Information Film Producers of America (IFPA) 1981 Cindy competition, Feb, 196

The Texas Broadcast Museum, Feb, 191

Three graduate electrical engineering students at the City College of New York constructed a satellite earth station, June, 587

The Western Consumer Electronics Show, May, 520

Industrial

Amplex Corp. adopted half-inch M-format for ENG, Sept, 868

Angenieux Corp. of America expansion, Nov, 1112

Barco Electronic restructured, Sept, 868

BBC's mobile satellite link terminal completed, Jan, 120

British Broadcasting Corporation opened its first multiple machine C-format 1-in helical scan videotape editing suite, Apr, 420

The British Broadcasting Corp.'s new television transmitters, called Silver Streak, installed at Braemar relay station, Feb, 194

Broadcasting and Related Products Department created as part of 3M's Memory Technologies Group, Sept, 868

CEI acquired by Panavision, Sept, 868

CFI Video, on-line edit suite, Mar, 296

60-Channel, 32-group sound mixing console installed at Pinewood Studios Theatre 2, June, 587

Cinema Products Corporation appointed distributor for Moviecam 3N motion picture camera system, Feb, 196

Cinema Products Corporation appointed Western States distributor for Ikegami's EC-35 video camera for electronic cinematography, Feb, 196

Compact Video Services, Inc. announced agreement with Universal City Studios, Inc., Oct, 1014

Computerized animation equipment installed at Allied Film Laboratory, Dec, 1216

Consolidated Film Industries license to Hollywood Film Company to make and distribute the Stroboscan Inspection Viewer, July, 660

A 3-D television system announced by 3-D Vision Inc., Jan, 122

Elector, exclusive North American distributor, Hi-Beam video projection system, June, 587

The Federal Communications Commission, a landmark ruling, Feb, 191

Film/Video Equipment Service Company established a professional optical department, July, 660

First television transmitter to operate entirely on naturally generated power has been installed at Dychliomore, Argyllshire, Jan, 118

Formation of American Photonics, Inc. announced by James A. Walyus, Oct, 1014

Fuji Photo Film U.S.A., Inc. installed an animated billboard in Times Square, Jan, 120

The Glen Glenn Sound Center under construction in Hollywood, Calif., May, 524

Hitachi Densi America, Ltd. reorganized corporate structure, June, 587

Infrared camera that detects small variations in heat demonstrated by RCA, Mar, 300

Japanese National Association of Broadcasters Exhibition, Tokyo, Mar, 296

JVC Company of America new name of Sales and Service Division of US JVC Corp., Oct, 1014

Matthews Studio Equipment, Inc. opening of a new facility, Dec, 1213

Mavica video still camera developed by Sony Corp., Jan, 120

MM Editing Systems, Inc. moved to New York City, Dec, 1216

Movielab, Inc., new post-production facility, Aug, 752

Name of Magnetic Video Corporation changed to Twentieth Century-Fox Video, June, 586

Paramount Pictures Corp. established a Technology Division, Jan, 122

Paul Yang & Associates, Inc. manufacture and distribution rights to the Spectra® Film Gate Photometer product line, Aug, 752

Pioneer Marketing Corp. appointed West Coast Sales Representative for Professional Motion Picture Div. Bell & Howell, Sept., 868

PMPEA developed a computer compilation of stolen motion picture production equipment, Sept., 868

RCA American Communications, Inc. to launch sixth in-orbit Satcom satellite in January 1985, June, 586

RCA announced a \$19 million facility under construction, Sept., 868

RCA Commercial Communications Systems managerial changes, Apr., 422

RCA demonstrated videodisc player representing the next generation of the RCA CED Video-Disc system, June, 587

RCA Satcom III-R communications satellite launched November 19, Mar., 302

The RCA Satcom III-R, the third in RCA's series of domestic communications satellites launched, November 19, 1981, Feb., 192

RCA to support North American Broadcast Teletext Specification standard, Dec., 1212

Robert Bosch GmbH Stuttgart and Thomson CSF Paris conclude an agreement, Apr., 422

Robert Lund formation of Robert Lund Associates, May, 524

Sachtler GmbH, of West Germany opening American sales and service operation, May, 524

Satellite News Channel designed an electronic art department, Dec., 1218

The Satellite Service Division of Compact Video Services, Inc., Burbank, Calif., three new services, Jan., 120

Sony Corporation and Thomson-CSF adopted ½-in. camera-recorder system, Dec., 1212

Sony Corporation of America, American Film Institute, established a Video Center for educational purposes, Aug., 752

Steenbeck, Inc. larger premises, Dec., 1218

Verbatim Corporation, subsidiary Limerick, Ireland, Mar., 296

Vidtronics Co., Inc., new facility in Newbury Park, CA, June, 587

Meetings

15th International Congress on high speed photography and photonics, Apr., 412

People

Alan Mitosky, appointed Vice-President/Sales for TVC Video, Inc., June, 585

Appointment of three senior vice-presidents and one vice-president for DeLuxe Laboratories, Inc., Dec., 1213

Bengt O. Orhall named SMPTE's first international governor, Apr., 412

Bruce Henrickson appointed Marketing Manager WickerWorks Video Productions, Inc., Sept., 864

Calvin Hotchkiss conducted Workshop for Independent Film Producers, May, 528

Carleton H. Musson appointed Director, Video Systems Product management RCA Commercial Communications Systems Division, Dec., 1212

Charles Felder appointed Vice-President of Sales for Sony Broadcast Products Company, July, 658

Charles Mascari appointed Sales Engineer for Sony Broadcast Products Co., Sept., 868

Charles P. Ginsburg, Vice-President Advanced Technology Planning, Ampex Corporation, delivered the 1981 Shoenberg Memorial lecture on November 5 for the Royal Television Society, Feb., 194

Cornelius (Chuck) Zicherman elected President and Chief Executive Officer Peter-son Enterprises, June, 586

Dalton H. Pritchard honored by the Edward Rhein Foundation of West Germany, Jan., 122

David Gaylor joined Video Systems Network, Nov., 1114

Donald Kline joined Commercial Electronics Inc., Nov., 1114

Ed Clare appointed National Sales Manager for Cinema Products Corp., Feb., 196

Edward Efron appointed Director of Engineering for ABLE Computer, Dec., 1216

Edward Reingold at IFPA seminar held during Video Expo in San Francisco, July, 658

Edward Sheehy named Executive Director of ITVA, June, 586

Frank Santucci announced establishment of Advanced Marketing, Nov., 1114

Gerald Sanders appointed District Sales Manager RCA Cablevision Systems, Sept., 864

Hartwell T. Sweeney reelected president of CINE, Oct., 1014

Irwin W. Young, Du Art Film Laboratories, New York City, re-elected President of the Association of Cinema & Video Laboratories, Feb., 194

Jeffrey B. Friedman named Editor of SMPTE Journal, May, 520

Jeffrey Stone named Vice-President, Sales, Lyon Lamb Video Animation Systems, Sept., 864

John C. Jeffrey, Director of Humphries Holdings PLC retired, Nov., 1114

John D. Silva named Vice-President of Broadcast Sales for Hoffman Video Systems, Sept., 864

John Ferber honored for 25 years with SMPTE, June, 585

Judith A. Schwab elected a member of the National Academy of Engineering, Sept., 864

Julian Hopkinson recipient of Senior Member Award of the Society of Photographic Scientists and Engineers, Aug., 752

Keith G. Johnson appointed Director, International Product Planning for RCA Commercial Communications Systems Div., Oct., 1014

Kenneth Holland, new President of Image Transform, Inc., May, 528

Krishna Gopal honored at a ceremony held in Bombay, India, Mar., 302

Leon D. Selznick retired July 1, 1982 as Vice-President of Sales, Ryder Sound Services, Oct., 1012

Mathew V. Kuriakose Production Supervisor, newest addition to the SMPTE editorial staff, June, 587

Michael O. Felix, appointed General Manager of Ampex Corporation's Advanced Technology Division, May, 528

Norman R. Grover retired December 31, 1981, from the post of Vice-President, Engineering, Canadian Broadcasting Corporation, June, 585

Paul F. Amedick appointed Manager, Community Affairs, for RCA's Commercial Communications System and Government Systems Divisions, Dec., 1212

Paul Higginbotham appointed Area Manager, Southeast Teleproduction Sales, RCA Commercial Communications Systems Division, Sept., 864

Paul Yang named assistant to Sections Vice-President, Sept., 864

Petro Vlahos elected Chairman of the Board of the Vlahos Gottschalk Research Corp., Aug., 752

Raymond A. Eynard appointed Manager of the Technical Services Group, Albert Chemicals, Division of Nashua Corp., Feb., 196

Robert Auguste appointed Vice-President, Engineering, Cinema Products Corp., Oct., 1012

Robert Hopkins appointed Managing Director, RCA Jersey Ltd., July, 658

Stephen C. Chamberlain appointed Manager of Corporate Communications for Arri-flex Corporation, June, 585

Thomas H. Bowman appointed manager, sales and marketing, Commercial Products Division, Houston Fearless 76, Inc., May, 528

Tom Kraemer appointment, Aug., 753

Toni Roth appointed Manager of Marketing and Sales for Image Transform, Sept., 864

Walter K. Peterson, Chairman of the Board of Peterson Enterprises, Inc., June, 586

Walter S. Ciciora recipient of Best Paper Award from the Consumer Electronics Group of IEEE, Oct., 1012

W. Arnold Taylor appointed Division Vice-President, Marketing RCA Commercial Communications Systems Division, Sept., 864

Warren B. Reese, director of Inter-Society Color Council, May, 528

W. D. Carter, President of Carter Equipment Co. made a Fellow of the British Kinematograph, Sound, and Television Society, May, 528

William A. Koch appointed Assistant General Manager Eastman Kodak Co., July, 660

William Buynak appointed Vice-President Products Division of Chyron Corp., Sept., 864

A. W. Johnson, President of the Canadian Broadcasting Corporation, Apr., 414

Publications

Hope Reports, July, 658

Hope reports predicts audiovisual improvement in sales, Dec., 1212

Scientific

Kodak develops ASA 1,000 film, Dec., 1218

A super-smooth turning mirror for NOVA, the world's largest laser, Oct., 1014

OBITUARIES

Allen, Victor H., Dec., 1224

Boyko, Peter, Sept., 876

Farber, Edward R., June, 592

Gottschalk, Robert E., Sept., 874

Hedden, William D., Dec., 1190

Jameson, Hugh V., Sept., 872

Mertz, Pierre, Oct., 1016

Olson, Harry F., June, 592

Polonsky, Joseph, Apr., 424

Rosen, E. David, June, 592

Simmons, Norwood, Jan., 124

Stifle, Ethan M., May, 530
Struss, Karl, June, 592
Zworykin, Vladimir Kosma, Nov, 1116

OTHER ORGANIZATIONS

Nordiska Film/TV Unionen, NFTU-The Nordic Film and Television Society, *Mikkeli*, Nov, 1100
Report on IBC 82, *Roizen*, Dec, 1201

POINT OF VIEW

Education and the SMPTE, *Farmer*, Feb, 139
Freedom, democracy, and communications, *Kanin*, Jan, 3
Preserving the present for the future, *Chamberlain*, Mar, 227
SMPTE's evolving role in standardization, *Zavada*, May, 445

POST-PRODUCTION

An advanced computer-assisted sound mixing system for film and video post-production, *Jones, Tilsley and Roche*, Oct, 931

PRODUCTION

HDTV standards considerations for electronic cinematography and post-production, *Powers*, Dec, 1153

PROGRESS REPORT

1981 Progress Committee Report, *Hedden*, May, 448

PROJECTION

Tucson 35-mm fisheye projection lens, *Bucher*, Feb, 176

SATELLITES

Satellite broadcasting in Canada, *Roscoe*, Dec, 1142

SECTION MEETINGS

Atlanta, Apr, 408; Apr, 408; Apr, 408; May, 506; Sept, 830
Chicago, Jan, 106; Feb, 188; Mar, 288; Apr, 408; May, 508; July, 657; Sept, 830
Detroit, Jan, 108; Jan, 108; Feb, 189; May, 506; July, 657; Sept, 830; Oct, 1006
Florida/Caribbean, Aug, 748; Sept, 830; Oct, 1006
Florida/Caribbean, Jan, 110
Hollywood, Feb, 189; Apr, 408; Apr, 408; May, 508; July, 656; Aug, 746; Oct, 1006; Dec, 1192
Houston, Jan, 110
Montreal/Quebec, Mar, 288; May, 508; May, 512; Sept, 830
Nashville, Jan, 112; Mar, 290; Apr, 408; Aug, 748
New England, Aug, 746; Aug, 746; Sept, 831
New York, Jan, 104; Feb, 189; Apr, 408; Aug, 748; Aug, 750; Aug, 750; Aug, 750; Oct, 1006; Oct, 1008

Ohio, Jan, 112; Jan, 112; Dec, 1192; Dec, 1192; Dec, 1192
Ottawa, Mar, 290; May, 512; July, 656; Aug, 746; Sept, 831
Pacific Northwest, Apr, 408; Sept, 831
Pasadena City College, Aug, 748
Pasadena City College Student Chapter, Jan, 112

Philadelphia, Jan, 114; Jan, 116; Feb, 189; Apr, 412; July, 657; July, 657; July, 657; Aug, 748; Aug, 750; Oct, 1008

Rochester, Mar, 294; May, 512; July, 657

Rocky Mountain, Jan, 114; Jan, 114; Mar, 294; Apr, 412; May, 514; July, 657; Sept, 831; Sept, 831; Oct, 1008

San Francisco, Jan, 114; Jan, 116; Apr, 412; May, 514; May, 514; July, 656; Aug, 748; Aug, 748; Aug, 751; Oct, 1010; Dec, 1192; Dec, 1192

Toronto, Jan, 116; Feb, 190; Mar, 294; Apr, 412; May, 518; July, 656; Aug, 751; Sept, 831; Oct, 1010

SENSITOMETRY

Quality control in an Australian laboratory: some steps towards a computer-aided sensitometric control system, *Case and Nurse*, Aug, 705

SOCIETY ACTIVITIES

Committees

1981 Progress Committee Report, *Hedden*, May, 448

SMPTE Committee on video recording and reproduction technology, Nov, 1112

SMPTE Television Video Technology Committee: report on standardization of monitor colorimetry by SMPTE, *Rhodes*, Dec, 1199

Conferences

Highlights of the 17th Annual SMPTE Television Conference, *Askew*, Nov, 1106

The 123rd SMPTE Technical Conference and equipment exhibit, *Hopkinson*, Jan, 6

17th annual TV Conference announcement, Dec, 1196

124th conference announcement, May, 504

125th Conference announcement, *Askew*, Dec, 1193

124th SMPTE Conference, Announcement, Apr, 388

16th Television Conference, Jan, 100

16th Television Conference, Report, Apr, 389

Editorial

SMPTE Board of Editors 1982-1983, July, 648

Engineering Activities

SMPTE's engineering working and study groups, *Zavada*, Apr, 404

General

SMPTE participates in NAB convention, June, 584

SMPTE's evolving role in standardization, *Zavada*, May, 445

Officers and Governors

Bengt O. Orhall named SMPTE's first international governor, Apr, 412

Section Activities

Chicago Section holds seventh annual all-day meeting—May 8, 1982, Aug, 734

The Chicago Section of the SMPTE, Feb, 190

Compte-rendu de la Mini-conference Montreal/Toronto/Rochester, *Winchell*, June, 567

New Section formed in Ottawa, Jan, 96

Sections Training Seminar, July, 654

SMPTE Montreal/Toronto/Rochester Mini-Conference, Report, *Winchell*, June, 566

1981 Toronto Mini-Conference program report, *Kruger*, Apr, 385

Study Group Reports

Videodisc system: report videodisc recording, *Paulson* and *Doyle*, Feb, 180

Working Groups

SMPTE Committee on video recording and reproduction technology: working group on editing procedures, *Lund*, Sept, 840

SMPTE EBI joint meeting on remote control, Sept, 868

Working group on digital video standards: the current position on the studio digital video interface, *Davies*, Sept, 852

SOUND

An advanced computer-assisted sound mixing system for film and video post-production, *Jones, Tilsley and Roche*, Oct, 931

SOUND RECORDING

Early photographic sound recording, *Harvey*, Mar, 237

SOUND REPRODUCTION

Cinema sound reproduction systems: technical advances, *Engebretson* and *Eargle*, Nov, 1046

Subjectively-perceived frequency response, *Staffeldt* and *Rasmussen*, July, 638

SOUND TRANSMISSION

Sound transmission through perforated screens, *Rettinger*, Dec, 1171

SPACE EXPLORATION

Television systems and slow-scan vidicons on NASA space probes, *Mirabito*, June, 542

STANDARDIZATION

Digital video coding standards: Europe, *Jones*, Mar, 260

International Standardization West Berlin (May 17-24, 1982), *Alden*, Sept, 834

SMPTE Committee on video recording and reproduction technology: working group on editing procedures, *Lund*, Sept, 840

SMPTE's evolving role in standardization, *Zavada*, May, 445

SMPTE Television Video Technology Committee: report on standardization of monitor colorimetry by SMPTE, *Rhodes*, Dec, 1199

Standardization of digital videotape recorders, *Heitmann*, Mar, 229

Standardization of the television raster for nonbroadcast, *Harshbarger*, Sept, 797

Working group on digital video standards: the current position on the studio digital video interface, *Davies*, Sept, 852

TECHNICAL NOTE

Depths of field, *Couzin*, Nov, 1096

TELEVISION

Digital

Digital transmission of television signals, *Tarnai*, Apr, 379

Three-dimensional spectrum and processing of digital NTSC color signals, *DuBois, Sabri* and *Ouellet*, Apr, 372

Digital Television

Digital video coding standards: Europe, *Jones*, Mar, 260

Electronic Still Store

Graphics go electronic - the CBS experience, *Stow*, Dec, 1186

General

Designing broadcast systems for high reliability, *Barlow*, Feb, 153

Future tense: a perspective on Canadian broadcasting, *Chercover*, Apr, 338

Report on IBC 82, *Roizen*, Dec, 1201

1981 Toronto Mini-Conference program report, *Kruger*, Apr, 385

TVFQ-99: French television in Quebec, *Charrette*, Apr, 384

Measurements and Tests

Programmable test-bed for composite television coding, *Brainard* and *Scattaglia*, Oct, 906

Quantization effects on differential phase and gain measurements, *Williams* and *Olsen*, Nov, 1077

Subjective evaluation of interfield-intrafield adaptive prediction coding, *Murakami, Hatori* and *Yamamoto*, Oct, 912

Nonbroadcast

Standardization of the television raster for nonbroadcast, *Harshbarger*, Sept, 797

Pickup Tube

A high resolution tri-electrode pickup tube employing a Se-As-Te amorphous photoconductor, *Sasano, Nakano, Maruyama, Tada* and *Aoki*, Dec, 1148

Production

Spaceships, aerial scenes in television production, *King*, Feb, 164

Quality Control

Composite television coding: subsampling and interpolation, *Brainard, Netravali* and *Pearson*, Aug, 717

Television film review rooms, *Winchell* and *Gourgon*, Apr, 365

Recording

Saticon tube for use in recording-type cameras, *Miller* and *Month*, Sept, 780

Satellites

Television systems and slow-scan vidicons on NASA space probes, *Mirabito*, June, 542

Signal Processing

NTSC color-field identification, *Spicer*, July, 627

Predictive coding of composite NTSC color television signals, *Brainard, Netravali* and *Pearson*, Mar, 245

Telecine

The Marconi B3410 line array telecine, *Matchell*, Nov, 1066

Test film for the evaluation of telecine performance, *Corley*, Apr, 361

Transmission

Digital transmission of television signals, *Tarnai*, Apr, 379

TESTS AND MEASUREMENTS

Measuring image steadiness in 16-mm motion-picture cameras, *Ji-Zong, Norman* and *Carson*, July, 644

A proposal for the measurement of the frictional properties of raw film stock, *Eilhammer* and *Rotthaler*, Dec, 1178

Quantization effects on differential phase and gain measurements, *Williams* and *Olsen*, Nov, 1077

A test target series and procedure to assess dynamic luminance reproduction of film by television, *Lovick*, Aug, 694

TUTORIAL PAPER

Nordiska Film/TV Unionen, NFTU-The Nordic Film and Television Society, *Mikkela*, Nov, 1100

VIDEODISC RECORDING

Videodisc system: report videodisc recording, *Paulson* and *Doyle*, Feb, 180

VIDEODISCS

First optical videodisc, *Rice* and *Dubbe*, Mar, 277

VIDEODISC SYSTEMS

The VHD videodisc system, *Inoue, Hidaka* and *Roberts*, Nov, 1071

VIDEO RECORDING

Time Lapse

A disc/tape system for time-lapse video, *Yonekura*, Oct, 902

VIDEOTAPE

Digital Technology

Choice of a digital VTR format, *Yoshida* and *Eguchi*, July, 622

Editing

Video-assisted film editing system, *Kary*, June, 547

Videotape editing system for film post-production, *Schneider* and *Kravits*, June, 552

General

Videotape: past, present, and future, *Zaludek*, Apr, 356

Recorders

Standardization of digital videotape recorders, *Heitmann*, Mar, 229

Recorders and Recording

Videotape recording: digital component versus digital composite recording, *Morrison*, Sept, 789

INDEX TO AUTHORS — January–December 1982 • Volume 91

A

Alden, Alex E.
International Standardization West Berlin
(May 17-24, 1982), Sept, 834

Anderson, Charles E.
A look at Canada, Apr, 331

Aoki, Toshio
A high resolution tri-electrode pickup tube employing a Se-As-Te amorphous photoconductor, Dec, 1148

Askew, Mark Ferris
Highlights of the 17th Annual SMPTE Television Conference, Nov, 1106

125th Conference announcement, Dec, 1193

B

Back, Frank G.
Zoom Lenses – Their Development Sept.
1981 issue, (errata), Jan, 116

Bamberg, William
Ruggedized "double seal" for use in a 6000-watt lamp, Dec, 1175

Barlow, M. W. S.
Designing broadcast systems for high reliability, Feb, 153

Beiser, Jack S.
Drive-in theater screen luminance, Aug, 733

Bergholm, Stig-Goran
YLE's (Finnish Broadcasting Co.) new film laboratory in Helsinki, Sept, 821

Boeykens, Robert
Printer control by means of calculated trimmer corrections, Feb, 171

Brainard, R. C.
Composite television coding: subsampling and interpolation, Aug, 717

Predictive coding of composite NTSC color television signals, Mar, 245

Programmable test-bed for composite television coding, Oct, 906

Buchroeder, R. A.
Tucson 35-mm fisheye projection lens, Feb, 176

C

Carl, K. J., Jr.
Eastman color print film 5384, Dec, 1161

Carrière, Marcel
National Film Board of Canada, Apr, 341

Carson, John F.
Measuring image steadiness in 16-mm motion-picture cameras, July, 644

Case, Dominic
Quality control in an Australian laboratory: some steps towards a computer-aided sensitometric control system, Aug, 705

Chamberlain, Stephen C.
Preserving the present for the future, Mar, 227

C

Charette, Marcel
TVFQ-99: French television in Quebec, Apr, 384

Chercovier, Murray H.
Future tense: a perspective on Canadian broadcasting, Apr, 338

Corley, Richard F. D.
Test film for the evaluation of telecine performance, Apr, 361

Couzin, Dennis
Depths of field, Nov, 1096

Crisante, Julianne E.
Kodak persulfate bleach for process ECN-2, Nov, 1058

D

Davies, Ken P.
Working group on digital video standards: the current position on the studio digital video interface, Sept, 852

Doyle, Michael J.
Videodisc system: report videodisc recording, Feb, 180

Dubbe, Richard F.
First optical videodisc, Mar, 277

DuBois, E.
Three-dimensional spectrum and processing of digital NTSC color signals, Apr, 372

Duffy, Robert
Film editing, Feb, 198

E

Eargle, John
Cinema sound reproduction systems: technical advances, Nov, 1046

Eguchi, Takeo
Choice of a digital VTR format, July, 622

Eilhammar, Werner
A proposal for the measurement of the frictional properties of raw film stock, Dec, 1178

Engebretson, Mark
Cinema sound reproduction systems: technical advances, Nov, 1046

Erwin, J. W.
Eastman color print film 5384, Dec, 1161

F

Farmer, Herbert E.
Education and the SMPTE, Feb, 139

Futers, Steve
Recent developments in studio lighting suspension systems, Aug, 730

G

Gourgon, Michael
Television film review rooms, Apr, 365

H

Graham, Gerald
Retrospective look at Canadian participation in the SMPTE, Apr, 332

Green, Leonard A.
National Film Board of Canada, Apr, 341

Griesshaber, Heinz
Automatic set-up system for the BCC-20 using digital video techniques, Aug, 709

H

Haig, Ronald N.
Full-immersion printing process, June, 555

Hall, Robert
Single-ended discharge lamps in modified tungsten halogen luminaires, June, 558

Hargrave, Rae
Calvin M. Hotchkiss SMPTE Chairman
Board of Editors, Nov, 1091

Dr. Roderick T. Ryan SMPTE Vice-President for Motion Picture Affairs 1979-1981, May, 498

Frederick M. Remley, Jr. SMPTE Vice-President for Educational Affairs 1982-1983, Apr, 386

Julian D. Hopkinson SMPTE Treasurer 1981-1982, Sept, 829

Lincoln L. Endelman SMPTE Vice-President for Photonic Affairs 1980-1981, Mar, 285

M. Carlos Kennedy SMPTE Secretary 1982, June, 564

Robert Shoberg SMPTE Vice-President for Photonic Affairs 1982-1983, Oct, 954

Harshbarger, John H.
Standardization of the television raster for nonbroadcast, Sept, 797

Harvey, F. K.
Early photographic sound recording, Mar, 237

Hatori, Yoshinori
Subjective evaluation of interfield-intrafield adaptive prediction coding, Oct, 912

Hedden, William D.
1981 Progress Committee Report, May, 448

Heitmann, Jurgen K. R.
Standardization of digital videotape recorders, Mar, 229

Hidaka, Tsuneyoshi
The VHD videodisc system, Nov, 1071

Hopkinson, Julian D.
The 123rd SMPTE Technical Conference and equipment exhibit, Jan, 6

Hunt, C. Bradley
Illumination of photographic darkrooms, Mar, 266

I

Inoue, Toshiya
The VHD videodisc system, Nov, 1071

Ishiguro, Toshio
Quality control of processing and printing using a low-cost computer, Aug, 700

J

Ji-Zong, Wu
Measuring image steadiness in 16-mm motion-picture cameras, July, 644

Johnson, A. W.
Culture, broadcasting, Canadian identity, Apr, 346

Jones, A. H.
Digital video coding standards: Europe, Mar, 260

Jones, M. H.
An advanced computer-assisted sound mixing system for film and video post-production, Oct, 931

K

Kanin, Fay
Freedom, democracy, and communications, Jan, 3

Kary, Michael Loran
Video-assisted film editing system, June, 547

Keil, Alan J.
Triax cameras: decade of experience, July, 634

Kennel, Glenn L.
Eastman color high-speed negative film 5293, Oct, 922

Kiess, Gunter
Magnetic (sound) film transport, Sept, 816

King, Reginald
Spaceships, aerial scenes in television production, Feb, 164

Kravits, Donald
Videotape editing system for film post-production, June, 552

Kruger, Karl
1981 Toronto Mini-Conference program report, Apr, 385

L

Long, Chris
Computer graphics at Independent Television News, Aug, 725

Lovick, Robert C.
A test target series and procedure to assess dynamic luminance reproduction of film by television, Aug, 694

Lund, Robert
SMPTE Committee on video recording and reproduction technology: working group on editing procedures, Sept, 840

M

Macher, Karl
Television zoom lens with three integrated zoom ranges, Sept, 808

Maruyama, Eiichi
A high resolution tri-electrode pickup tube employing a Se-As-Te amorphous photodiode, Dec, 1148

Matchell, Ray
The Marconi B3410 line array telecine, Nov, 1066

Matsuo, Kazutake
Quality control of processing and printing using a low-cost computer, Aug, 700

McMann, Renville H.
Broadcast graphics, Sept, 774

Mikkeli, Otto E.
Nordiska Film/TV Unionen, NFTU-The Nordic Film and Television Society, Nov, 1100

YLE's (Finnish Broadcasting Co.) new film laboratory in Helsinki, Sept, 821

Miller, Louis D.
Saticon tube for use in recording-type cameras, Sept, 780

Mirabito, Michael M.
Television systems and slow-scan vidicons on NASA space probes, June, 542

Month, Alfred
Saticon tube for use in recording-type cameras, Sept, 780

Morrison, E. Fraser
Videotape recording: digital component versus digital composite recording, Sept, 789

Mossman, Colin F.
4000-Meter printing system, Mar, 233

Murakami, Hitomi
Subjective evaluation of interfield-intrafield adaptive prediction coding, Oct, 912

N

Naito, Susumu
Quality control of processing and printing using a low-cost computer, Aug, 700

Nakano, Toshio
A high resolution tri-electrode pickup tube employing a Se-As-Te amorphous photodiode, Dec, 1148

Neatrvali, A. N.
Composite television coding: subsampling and interpolation, Aug, 717

Predictive coding of composite NTSC color television signals, Mar, 245

Norman, Richard N.
Measuring image steadiness in 16-mm motion-picture cameras, July, 644

Nurse, Tom
Quality control in an Australian laboratory: some steps towards a computer-aided sensitometric control system, Aug, 705

O

Olsen, Richard K.
Quantization effects on differential phase and gain measurements, Nov, 1077

Ouellet, J.-Y.
Three-dimensional spectrum and processing of digital NTSC color signals, Apr, 372

P

Paul, Herbert
Drive-in theater screen luminance, Aug, 733

Paulson, C. Robert
Videodisc system: report videodisc recording, Feb, 180

Pearson, D. E.
Composite television coding: subsampling and interpolation, Aug, 717

Predictive coding of composite NTSC color television signals, Mar, 245

Péloquin, Gilles
Historical perspective of Quebec's cinema, Apr, 353

Ponting, Jack
Involvement of the NFB in the acquisition, storage, and preservation of motion picture film, Apr, 382

Powell, S. J.
Eastman color print film 5384, Dec, 1161

Powers, Kerm H.
HDTV standards considerations for electronic cinematography and post-production, Dec, 1153

R

Rahman, Altaf
Broadcast graphics, Sept, 774

Rasmussen, Erik
Subjectively-perceived frequency response, July, 638

Reeves, Hazard E.
The development of stereo magnetic recording for film (part I), Oct, 947

The development of stereo magnetic recording for film (part II), Nov, 1087

Reinking, F. R.
Eastman color high-speed negative film 5293, Oct, 922

Eastman color print film 5384, Dec, 1161

Rettinger, Michael
Sound transmission through perforated screens, Dec, 1171

Rhodes, Charles W.
SMPTE Television Video Technology Committee: report on standardization of monitor colorimetry by SMPTE, Dec, 1199

Rice, Philip
First optical videodisc, Mar, 277

Roberts, Laurence J.
Cameras and systems: a history of contributions from the Bell & Howell Co. (part I), Oct, 934

Cameras and systems: a history of contributions from the Bell & Howell Co. (part II), Nov, 1079

Mitchell cameras, Feb, 141

Roberts, Vincent
The VHD videodisc system, Nov, 1071

Roche, B. J.
An advanced computer-assisted sound mixing system for film and video post-production, Oct, 931

Roizen, Joseph
Film editing, Feb, 198

Report on IBC 82, Dec, 1201

Roscoe, O. S.
Satellite broadcasting in Canada, Dec, 1142

Rotthaler, Max
A proposal for the measurement of the frictional properties of raw film stock, Dec, 1178

S

Sabri, M. S.
Three-dimensional spectrum and processing of digital NTSC color signals, Apr, 372

Saeki, Shuichi
Quality control of processing and printing using a low-cost computer, Aug, 700

Sasano, Akira
A high resolution tri-electrode pickup tube employing a Se-As-Te amorphous photodiode, Dec, 1148

Scattaglia, J. V.
Programmable test-bed for composite television coding, Oct, 906

Schneider, Arthur
Videotape editing system for film post-production, June, 552

Sehlin, R. C.
Persulfate bleach: film processes, Feb, 158

Eastman color print film 5384, Dec, 1161

Sehlin, Richard C.
Eastman color high-speed negative film 5293, Oct, 922

Smith, Arthur A.
Broadcast graphics, Sept, 774

Spakowsky, S. W.
Eastman color high-speed negative film 5293, Oct, 922

Eastman color print film 5384, Dec, 1161

Spicer, Charles E.
NTSC color-field identification, July, 627

Staffeldt, Henrik
Subjectively-perceived frequency response, July, 638

Stow, R. L.
Graphics go electronic - the CBS experience, Dec, 1186

Szafrański, W. A.
Eastman color print film 5384, Dec, 1161

Szafrański, Wayne A.
Kodak persulfate bleach for process ECN-2, Nov, 1058

T

Tada, Kanetoshi
A high resolution tri-electrode pickup tube employing a Se-As-Te amorphous photoconductor, Dec, 1148

Tarnai, Ernest J.
Digital transmission of television signals, Apr, 379

Tilsley, D. A.

An advanced computer-assisted sound mixing system for film and video post-production, Oct, 931

W

Whittier, G. L.
Eastman color high-speed negative film 5293, Oct, 922

Wien, R. W.
Eastman color print film 5384, Dec, 1161

Wilkes, Bryan
Lighting the royal wedding, Mar, 253

Williams, Frederick A.
Quantization effects on differential phase and gain measurements, Nov, 1077

Winchell, Walter H.
Compte-rendu de la Mini-conference Montreal/Toronto/Rochester, June, 567

SMPTE Montreal/Toronto/Rochester Mini-Conference, Report, June, 566

Television film review rooms, Apr, 365

Y

Yamamoto, Hideo
Subjective evaluation of interfield-intrafield adaptive prediction coding, Oct, 912

Yonekura, Akira
A disc/tape system for time-lapse video, Oct, 902

Yoshida, Hirofumi
Choice of a digital VTR format, July, 622

Youngquist, Robert J.
Editing digital audio signals in a digital audio video system, Dec, 1158

Z

Zaludek, Jerry P.
Videotape: past, present, and future, Apr, 356

Zavada, Roland J.
SMPTE's engineering working and study groups, Apr, 404

SMPTE's evolving role in standardization, May, 445

Index to SMPTE-Sponsored American National Standards, Society Recommended Practices, and Engineering Guidelines

Standards Subscription Service: The service supplies all approved standards, practices, and guidelines which are sponsored by the SMPTE and which are validated during the calendar year. Proposals are published in the *JOURNAL* and are not included in the subscription service. Write to SMPTE for detailed information regarding this service.

Individual Copies or Standards Binders: Individual copies of approved standards, practices, and guidelines and loose-leaf binders containing a complete set of all SMPTE-sponsored documents may be purchased from Society Headquarters.

Subject	No.	Journal	Subject	No.	Journal
Film Dimensions					
8mm, Perforated super 8, 1R	PH22.149-1981	Dec. 1981	super 8 on 35mm	PH22.179-1980	Nov. 1980
16mm, Perforated regular 8, 2R-1500	PH22.17-1982	Aug. 1982	16mm Contact (positive from negative and reversal)	PH22.48-1976	Oct. 1976
16mm, Perforated super 8, (1-3)	PH22.151-1981	Dec. 1981	16mm to 35mm Enlargement Ratio	RP 66-1982	Dec. 1982
(1-4)	PH22.168-1973	Aug. 1973	super 16 to 35 Enlargement Ratio	PH22.201M-1981	Nov. 1981
	R1980		35mm to 16mm Prints and Dupe Negatives	RP65-1982	Dec. 1982
16mm, 1R	PH22.109-1980	May 1981	35mm Release Picture-Sound Continuous Contact	PH22.111-1982	Aug. 1982
16mm, 2R	PH22.110-1980	May 1981			
35mm, Perforated super 8, 2R-1664 (1-0)	PH22.169-1980	May 1981			
5R	PH22.165-1981	Oct. 1981			
35mm, Perforated 16mm, 3R (1-3-0)	PH22.171-1980	May 1981			
35mm, Perforated 32mm, 2R	PH22.73-1981	Oct. 1981			
35mm, BH	PH22.93-1980	Apr. 1981			
35mm, CS-1870	PH22.102-1980	Apr. 1981			
35mm, DH-1870	PH22.1-1981	Dec. 1981			
35mm, KS	PH22.139-1980	Apr. 1981			
65mm, KS	PH22.145-1981	Dec. 1981			
70mm, Perforated 65mm, KS-1870	PH22.119-1981	Dec. 1981			
Film Usage, Camera					
regular 8	PH22.21M-1981	Mar. 1982	8mm Release Prints	RP56-1974	Jan. 1975
super 8	PH22.156-1976	Dec. 1976	R1979		
16mm	PH22.9-1976	Feb. 1977	regular 8	PH22.20-1981	Feb. 1982
35mm	PH22.2-1979	Sept. 1979	super 8	PH22.154-1976	Dec. 1976
Film Usage, Projector					
regular 8	PH22.22-1975	Apr. 1976	16mm	PH22.8-1981	Feb. 1982
	R1981		16 & 35mm TV Review Room	PH22.148-1967	Dec. 1967
super 8	PH22.155-1976	Dec. 1976	35mm	PH22.195-1977	Sept. 1977
16mm	PH22.10-1980	July 1981	70mm	PH22.152-1969	Dec. 1969
Image Areas, Camera					
regular 8	PH22.19-1976	Oct. 1976	R1976		
super 8	PH22.157-1971	June 1971			
	R1977				
16mm	PH22.7-1976	Oct. 1976	2-track	PH22.204-1981	May 1982
super 16	PH22.201M-1981	Nov. 1981	35mm	PH22.40-1978	Aug. 1978
35mm	PH22.59-1974	June 1974			Nov. 1982 ¹
	R1981		2-track	PH22.203-1981	May 1982
Image Areas, Printers					
super 8 on 16mm (1-3)	PH22.181-1973	Apr. 1973	Magnetic Record		
	R1979		regular 8	PH22.135-1982	Oct. 1982
(1-4)	PH22.153-1979	Sept. 1979	super 8	PH22.164-1975	Oct. 1975
			16mm 100 mil	PH22.112-1977	Nov. 1977
			200 mil	PH22.97-1982	Oct. 1982
			Recorded Characteristics	PH22.209M	Nov. 1982 ²
			35mm 3 track	PH22.86-1981	Mar. 1982
			4 track	PH22.108-1974	Mar. 1975
			release	PH22.137-1981	Nov. 1981
			6 track	PH22.186-1974	Feb. 1975
				R1980	
			Recorded Characteristics	PH22.208M	Nov. 1982 ²
			70mm	PH22.185-1980	1981
			Modulation, sound level	PH22.183	Oct. 1972 ²
			Spectral Response, super 8 reproducers	RP 109	Sept. 1981 ²
			Use and Care, test films	RP 45-1972	Aug. 1972
				R1977	

Subject	No.	Journal	Subject	No.	Journal			
Stripe								
regular 8	PH22.88-1976	Nov. 1976	Flutter	RP 70-1977	Aug. 1977			
super 8	PH22.161-1980	Feb. 1981	Projector Alignment	RP 82-1978	Mar. 1979			
regular 8 on 16mm	PH22.136-1976	Nov. 1976	Registration	RP 20-1965	Jan. 1966			
super 8 on 16mm				R1975	Mar. 1982 ¹			
(1-3)	PH22.176-1976	Dec. 1976	Scanning Beam	RP 81-1978	Feb. 1979			
(1-4)	PH22.162-1980	Feb. 1981	Sound Focusing	RP 63-1976	Aug. 1976			
super 8 on 35mm (5R)	PH22.163-1980	Feb. 1981	Sound Projector	RP 18-1981	Apr. 1982			
super 8 on 35mm (5R)	PH22.163-1980	Feb. 1981	Theater Test	RP 35-1969	June 1969			
16mm 30 mil	PH22.101-1976	Nov. 1976		R1977				
50 mil	PH22.127-1976	Nov. 1976	35mm Buzz-Track	RP 68-1976	Mar. 1977			
100 mil	PH22.87-1966	Aug. 1966	Flutter	RP 97-1981	Sept. 1981			
	R1977		Projector Alignment	RP 40-1971	Aug. 1971			
35mm 4-track release	PH22.177-1970	Jan. 1971		R1977	May 1982 ¹			
	R1976		Anamorphic Attachments	RP 110	Apr. 1982 ²			
			Projector Test	RP 33-1968	Dec. 1968			
				R1977				
Television								
Alignment Color Bar Signal	ECR 1-1978	Oct. 1978	Scanning Beam	RP 69-1977	Aug. 1977			
Color Temperature, monitors	RP 37-1969	Sept. 1969	Sound Focusing	RP 64-1981	July 1982			
	R1976		Theater Test	RP 35-1969	June 1969			
Review Room Screens	RP 41-1974	Nov. 1974		R1977				
		Sept. 1982 ¹	70mm Projector Alignment	RP 91-1981	Sept. 1981			
Comparator	RP 52-1974	Nov. 1974	Magnetic					
WITHDRAWN 1981		Apr. 1982 ³	super 8 Azimuth Alignment	RP 61-1975	May 1976			
Density, Monochrome, Films and Slides	RP 7-1970	Apr. 1970		May 1982¹				
	R1976		Flutter	RP 62-1975	May 1976			
Density, Color	RP 46-1972	Sept. 1972	Multifrequency	RP 92-1980	Apr. 1981			
	R1977		16mm Azimuth Alignment	RP 78-1978	Aug. 1978			
Illuminator for Test Pattern			Flutter	RP 76-1977	July 1978			
Transparencies	RP 72-1977	June 1977	Multifrequency	RP 90-1979	Jan. 1980			
Image Area			35mm Azimuth Alignment	RP 77-1978	Aug. 1978			
16mm Film	PH22.96-1982	Dec. 1982	4-Track	RP 80-1977	June 1978			
35mm Film	PH22.95-1963	Oct. 1963	DFLutter	RP 75-1977	July 1978			
	R1975		4-Track	RP 79-1977	June 1978			
Review Rooms	PH22.148-1967	Dec. 1967						
	R1978							
Slides and Opaques	PH22.94-1973	Nov. 1973						
	R1979							
Monitors, Setting of White for	RP 71-1977	June 1977	Video Magnetic Tape Recording					
2 × 2 Slide Mount	RP 9-1977	Dec. 1977	Digital Control Interface					
Test Patterns			Electrical and Mechanical					
Alignment	RP 27.1-1977	May 1978	Characteristics	PH22.207M	Sept. 1982 ²			
Cameras, studio and field	RP 27.6-1972	Sept. 1972	Supervisory Protocol	RP 113	Sept. 1982 ²			
		Dec. 1982 ³	Tape Care and Handling	RP 103-1982	Oct. 1982			
telecine	RP 27.7-1972	Sept. 1972	Helical Scan					
	R1977		Code, Time and Control,					
Linearity	RP 38.1-1971	Apr. 1972	Recording Requirements	RP 93-1980	Apr. 1981			
	R1976		Raw Stock, Reference Tape	V98.26M	Oct. 1980 ²			
Mid-Frequency Response	RP 27.5-1977	May 1978	Reels, 1-in	V98.24M	July 1980 ²			
Picture Steadiness	RP 27.4-1972	June 1972	Tape, 1-in	V98.25M	July 1980 ²			
	R1977		Type B 1-in					
Registration	RP 27.2-1971	Apr. 1972	Basic Parameters	C98.15M-1980	Apr. 1980			
	R1976		Basic Parameters	C98.15M-1980	Apr. 1980			
Safe Areas	RP 27.3-1972	June 1972	Carrier Frequencies					
	R1977		and Pre-emphasis	RP 84-1980	Apr. 1980			
Test Films			Frequency Response					
Photographic			and Operating Level	C98.17M-1980	Apr. 1980			
regular 8 Registration	RP 19-1965	Jan. 1966	Record Dimensions	C98.16M-1980	Apr. 1980			
	R1975	Mar. 1982 ¹	Reference Tapes					
super 8 Registration	RP 32-1969	Sept. 1969	Video and Audio	RP 107	June 1981 ²			
	R1975		Record Dimensions	V98.30M	June 1981 ²			
Sound Projector	RP 18-1981	Apr. 1982	Recorder Parameters	V98.29M	June 1981 ²			
16mm Buzz-Track	RP 67-1976	Mar. 1977	Tracking-Control Record	RP 83-1980	Apr. 1980			
	July 1982¹		Type C 1-in					
			Basic Parameters	C98.18M-1979	Feb. 1980			
				Jan. 1982¹				
			Frequency Response					
			and Reference Level	C98.20M-1979	Feb. 1980			
			Record Dimensions	C98.19M-1979	Feb. 1980			
				Oct. 1982¹				
			Recorder Parameters	RP 86-1979	Feb. 1980			

Subject	No.	Journal	Subject	No.	Journal
Reference Tapes			WITHDRAWN 1982		Aug. 1982 ³
Interchange	RP 100	Oct. 1980 ²	Vertical Interval		
Video and Audio	RP 99	Oct. 1980 ²	Signal	RP 57-1974	Jan. 1975
Record Dimensions	V98.28M	Oct. 1980 ²		R1980	
Recorder Parameters	V98.27M	Oct. 1980 ²	Time and Control Code	RP 108	Sept. 1981 ²
Tracking-Control Record	RP 85-1979	Feb. 1980			
Type E 3/4-in					
Carrier Frequencies,			MISCELLANEOUS		
Pre-emphasis, Audio					
and Control Signals	RP 87-1980	May 1980	Cartridge, Super 8 Camera		
Cassette Dimensions	C98.22M-1980	May 1980	Notches	PH22.166-1981	Nov. 1981
Receiver/Monitor			Silent		
Test Tape	RP 96	Oct. 1979 ²	50 Ft.		
		July 1982 ¹	Model I		
Record Dimensions	C98.21M-1980	May 1980	Aperture, Profile, Pressure		
Small Cassette	V98.31M	Nov. 1981 ²	Pad, Film Position	PH22.159.2-1980	Nov. 1980
Type F 1/2-in			Camera Run Length,		
Carrier Frequencies and			Perforation Cut-Out,		
Pre-emphasis	RP 88-1980	May 1980	End of Run Notch	PH22.200M	Nov. 1981 ²
Records and			Cartridge, Cartridge-		
Parameters	C98.23M-1980	May 1980	Camera Interface,		
Type H 1/2-in			Take-Up Core Drive	PH22.159.1-1980	Feb. 1981
Carrier Frequencies, Pre-emphasis,			Model II		
Audio and Control Signals	RP 112	July 1982 ²	Cartridge, Cartridge-Camera		
Records	V98.32M	July 1982 ²	Fit, Core	PH22.190-1976	Sept. 1976
Tape and Cassette	V98.33M	July 1982 ²	Film Length,		
Quadruplex			Camera Run	PH22.188-1976	Sept. 1976
Audio 2 Level/Response	RP 102-1981	Jan. 1982	Position	PH22.189-1976	Sept. 1976
Code, Time and Control	V98.12M-1981	Aug. 1981	Speed, Color Balance,		
Recording Requirements	RP 101-1981	Jan. 1982	Identification	PH22.191-1976	Sept. 1976
Dropout Detection	RP 47-1972	Dec. 1972	Sound		
		R1978	50 Ft.		
Dual-Program Audio	RP 89-1978	Mar. 1979	Model I		
Headwheel and Guides	RP 36-1978	Feb. 1979	Aperture, Pressure Pad,		
Labels	RP 26-1981	Apr. 1982	Film Position	PH22.198-1980	Aug. 1980
Leader, monochrome	V98.2-1982	Dec. 1982	Camera-Run Length,		
color	C98.9-1967	Sept. 1967	Perforation Cut-Out,		
		R1975	End-of-Run Notch	PH22.200M-1980	Aug. 1980
Modulation Practices	RP 6-1979	Jan. 1980	Nov. 1981 ²		
Patch Splices	RP 5-1976	May 1977	Cartridge, Cartridge-Camera		
Records, Characteristics of			Interface, Core Drive	PH22.197-1980	Aug. 1980
Audio	V98.3-1980	July 1981	Pressure Pad Flatness,		
Record Dimensions, Video,			Aperture Profile	PH22.199-1980	Aug. 1980
Audio and Tracking Control	V98.6-1981	Oct. 1981	200 Ft.		
Record, Tracking Control	RP 16-1977	Dec. 1977	Model I		
Reels, 2 in.	C98.5-1970	Feb. 1971	Aperture, Profile, Film Position,		
		R1976	Pressure Pad, Flatness	PH22.206	Aug. 1981 ²
1/2 in	C98.14-1975	Mar. 1976	Camera-Run Length,		
		R1981	Perforation Cut-Out,		
Speed	C98.4-1970	Feb. 1971	End-of-Run Notch	PH22.200M	Nov. 1981 ²
		R1976	Cartridge, Cartridge-Camera		
Spools, Cartridge	V98.13-1981	Oct. 1981	Interface, Core Drive	PH22.205	Aug. 1981 ²
Labels	RP 60-1975	May 1975			
		R1980			
Tape Dimensions	C98.1-1978	Aug. 1978			
Tape Vacuum Guide	RP 11-1968	Aug. 1968			
Tape Usage, Cartridge/					
Cassette Spools	EG 6	July 1981 ²			
Test Tapes					
Multifrequency					
15 in/s	C98.8-1977	Jan. 1978			
		Mar. 1981 ²			
7.5 in/s	C98.11-1977	Jan. 1978			
		Mar. 1981 ²			
Video Frequency,					
15 in/s, LBM	RP 29-1968	Sept. 1968	Density Measurements		
WITHDRAWN 1981	R1980	Apr. 1982 ³	Calibration of Densitometers	RP 15-1982	Dec. 1982
15 inb/s, HB	RP 43-1975	June 1976	Special Diffuse	PH22.117-1968	Mar. 1969
		Sept. 1982 ¹		R1979	
7.5 in/s, HB	RP 44-1975	June 1976	Edge Numbering, 16mm Film	PH22.83-1972	Dec. 1972
				R1978	

Subject	No.	Journal	Subject	No.	Journal
16mm Release Prints	RP 54-1974 R1979	July 1974	Reels		
Electro-Acoustic Response, Control Rooms and Theaters	PH22.202	Jan. 1979 ²	regular 8	PH22.23-1975 R1981	Apr. 1976
Emulsion Orientation			super 8	PH22.160-1977	July 1977
Print Winding	RP 39-1970 R1982	Apr. 1970	16mm	PH22.11-1981	Feb. 1982
Raw Stock Winding	PH22.75-1975 R1982	Mar. 1976	35mm	PH22.4-1976	Apr. 1977
Super 8 Release Prints	RP 42-1970 WITHDRAWN 1982	Dec. 1970 Aug. 1982 ³	Large Capacity	PH22.193-1976	Apr. 1977
Film Length, 8mm Camera Spool			Shipping	PH22.192-1976	Apr. 1977
(25 ft Capacity)	PH22.143-1975 R1981	Feb. 1976	70/35 mm	PH22.147-1976	Apr. 1977
Graph Paper	RP 22-1966 R1976	Dec. 1966 Sept. 1980 ²	Reversal Color Film Speed	PH22.146M-1980	May 1981
Image Quality, 70, 35, 16mm	EG 5	July 1981 ²	Safety Film	PH22.31M-1980	July 1981
Jump and Weave, 70, 35, 16mm	RP 105-1981	June 1982	Screens		
Leaders			Gain		
Preprint, 8mm	RP 49-1973 R1979	Mar. 1973	Determination	RP 94-1980	June 1981
Universal	PH22.55-1975	Mar. 1976	Installation	RP 95-1980	June 1981
		Feb. 1982 ¹	Luminance		
Lenses			Drive-in Theaters	RP 12-1972 R1980	Dec. 1972 Aug. 1982 ²
Aperture Calibration	PH22.90-1964 R1977	June 1964	Indoor Theaters	PH22.196-1978	Aug. 1978
Focal Lengths, Markings, 35 & 70mm	PH22.28-1982	Nov. 1982	Measurement	RP 98-1981	Sept. 1981
Focus Scales, 16mm and 8mm Cameras	Ph22.74-1965 R1981	May 1965	Review Rooms, 8 mm	RP 51-1974 R1979	May 1974
Lens Mounts			Slides & film Strips	RP 591-975 R1980	May 1975
16mm & 8mm Cameras	PH22.76-1960 R1979	Feb. 1960	Sensitometric Strips	RP 14-1982	Dec. 1982
Lubrication 16 & 8mm Prints	RP 48-1973 R1979	Mar. 1973	Spindles		
Nomenclature			super 8 projector	RP 50-1974 R1979	May 1974
Cartridge/Cassette	RP 58-1974 R1980	Jan. 1975	16mm camera	RP24-1967 R1978	July 1967
Film	PH22.56-1978	Nov. 1978	16mm projector	RP 34-1968 R1978	Dec. 1968
Notching, Scene Change, 35mm	RP 53-1974 Aug. 1982 ²	July 1974	35mm rewind	RP 21-1976	May 1977
Raw Stock Identification	PH22.184-1973 R1980	Nov. 1973	Splices		
Container edge	ECR 2-1979	Sept. 1979	16 & regular 8	PH22.24-1982	Aug. 1982
			super 8	PH22.172.1-1969 R1975	Mar. 1970 June 1982 ³
			Cemented	PH22.172.2-1976	Dec. 1976
			70, 65 & 35 mm	P 111	Apr. 1982 ² June 1982 ³
			70mm reinforcement	RP 23-1979	Jan. 1980
Spools					
8mm, 25-ft capacity	PH22.107-1975 R1981	Feb. 1976			
Double 8, 100-ft capacity	PH22.173-1975 R1981	Feb. 1976			
16mm, daylight-loading, 50- to 400-ft capacity	PH22.174-1981	Mar. 1982			

Subject	No.	Journal	Subject	No.	Journal
Sprockets					
regular 8	RP 73-1977	Jan. 1978	Cross Modulation, Variable-Area	RP 104-1981	June 1982
super 8	RP 55-1974	Jan. 1975 R1979	Intermodulation, Variable-Density	PH22.51-1961	July 1961
16mm	RP 74-1977	Jan. 1978		R1975	June 1982 ³
35mm	PH22.35-1982	Nov. 1982			
Synchronization, sound-picture RP25-1968 Mar. 1968 R1978					
Tension, 35mm Systems, RP 106-1982 Oct. 1982					
Test Methods, Sound Distortion					
Cross Modulation, Variable-Area					
Intermodulation, Variable-Density					
Unsteadiness, High-Speed Camera					
RP 17-1964 May 1964 R1982					

R—Reaffirmed.

¹ Proposed editorial revision.

² Proposal.

³ Withdrawal notice.

American National Standards, SMPTE Recommended Practices, Engineering Guidelines, and International Standards — 1982 • Volume 91

<i>Number</i>	<i>Title</i>	<i>Issue</i>	<i>Page</i>
American National Standards			
PH22.8-1981	Approved, Dimensions of Projectable Image Area on 16-mm Motion-Picture Film	Feb.	220
PH22.11-1981	Approved, Dimensions for 16-mm Motion-Picture Projection Reels (200 to 2300-Ft Capacity)	Feb.	222
PH22.17-1982	Approved, Dimensions for 16-mm Motion-Picture Film Perforated 8-mm Type R, 2R	Aug.	765
PH22.20-1981	Approved, Dimensions of Projectable Image Area on 8-mm Type R Motion-Picture Film	Feb.	221
PH22.21M-1981	Approved, Specifications for Camera Usage of Double-Width 8-mm Type R Motion-Picture Film Perforated Two Edges	Mar.	326
PH22.24-1982	Approved, Dimensions of Transverse Cemented Splices on 16-mm and 8-mm Type R Motion-Picture Film	Aug.	766
PH22.28-1982	Approved, Dimensions for 35- and 70-mm Motion-Picture Projection Lenses and Mounts	Nov.	1135
PH22.35-1982	Approved, Dimensions of Universal Intermittent Sprockets for 35-mm Motion-Picture Projectors	Nov.	1136
PH22.40	Proposed Editorial Revision, Position, Dimensions and Reproducing Speed of Photographic Audio Records on 35-mm Motion-Picture Release Prints	Nov.	1134
PH22.41	Proposed Editorial Revision, Dimensions of Photographic Audio Records on 16-mm Motion-Picture Prints	Feb.	219
PH22.48	Proposed Editorial Revision, Location of Printing Areas for 16-mm Picture and Sound Contact Printing	Oct.	1037
PH22.51	Proposed Withdrawal, Intermodulation Tests for 16-mm Variable Density Photographic Sound Prints	June	614
PH22.55	Proposed Editorial Revision, Specifications for Leaders and Cue Marks for 35-mm and 16-mm Sound Motion-Picture Release Prints	Feb.	219
PH22.75-1975	Reaffirmed, Designation of A and B Windings for Motion-Picture Raw Stock	Oct.	1037
PH22.86-1981	Approved, Position, Dimensions and Reproducing Speed of Three 200-Mil Magnetic Sound Records on 35-mm and One Record on 17.5-mm Motion-Picture Film	Mar.	325
PH22.96-1982	Approved, Dimensions for Television Image Area on 16-mm Motion-Picture Film	Dec.	1244
PH22.97-1982	Approved, Position, Dimensions and Reproducing Speed of 200-Mil Magnetic Sound Record on 16-mm Motion-Picture Film	Oct.	1038
PH22.111-1982	Approved, Dimensions of Exposed Areas for Picture and Photographic Sound on 35-mm Motion-Picture Prints Made on Continuous Contact Printers	Aug.	767
PH22.135-1982	Approved, Position, Dimensions and Reproducing Speed of Magnetic Sound Record on 8-mm Type R Motion-Picture Film	Oct.	1039
PH22.172.1-1969	Proposed Withdrawal, Dimensions of Cemented Splices on 8-mm Motion-Picture Film Perforated Super 8, Projection Type	June	614
PH22.172.2-1976	Proposed Withdrawal, Dimensions of Tape Splices on 8-mm Motion-Picture Film Perforated 8-mm Type S (Super 8), Projection Type	June	614
PH22.174-1981	Approved, Dimensions for 16-mm Daylight-Loading Motion-Picture Camera Spools (50- to 400-Ft Capacity)	Mar.	326
PH22.203-1981	Approved, Dimensions of Two-Track Photographic Sound Records on 35-mm Motion-Picture Prints	May	536
PH22.204-1981	Approved, Dimensions of Two-Track Photographic Sound Records on 16-mm Motion-Picture Prints	May	537
PH22.207M	Proposed, Electrical and Mechanical Characteristics for Digital Control Interface	Sept.	888
PH22.208M	Proposed, Recorded Characteristic of Magnetic Audio Records on 35-mm Motion-Picture Film	Nov.	1137
PH22.209M	Proposed, Recorded Characteristic of Magnetic Audio Records on 8-mm Type S Motion-Picture Prints and Full-Coat Magnetic Film Perforated 8-mm Type S	Nov.	1138
V98.2-1982	Approved, Specifications of Monochrome Video Magnetic Tape Leader	Dec.	1243
V98.9	Proposed Editorial Revision, Specifications for Color Video Magnetic Tape Leader	Jan.	131
V98.18M	Proposed Editorial Revision, Basic System and Transport Geometry Parameters for 1-in Type C Helical-Scan Video Recording	Jan.	131
V98.19M	Proposed Editorial Revision, Dimensions and Location of Records for 1-in Type C Helical-Scan Video Tape Recording	Oct.	1037
V98.32M	Proposed, Dimensions and Location of Records for 1/2-in Type H Helical-Scan Video Tape Cassette Recording	July	683
V98.33M	Proposed, Dimensions of Video Tape and Video Cassette for 1/2-in Type H Helical-Scan Video Type Recording	July	685

<i>Number</i>	<i>Title</i>	<i>Issue</i>	<i>Page</i>
SMPTE Recommended Practices			
RP 12	Proposed Revision, Screen Luminance for Drive-In Theaters	Aug.	768
RP 14-1982	Approved, Plotting Data from Sensitometric Strips Exposed on Type Ib2 (Intensity Scale) Sensitometers	Dec.	1245
RP 15-1982	Approved, Calibration of Densitometers Used for Black-and-White Photographic Density Measurement	Dec.	1245
RP 17-1964	Reaffirmed, A Photographic Recording Technique for Measuring High-Speed Camera Image Unsteadiness	June	614
RP 18-1981	Approved, Specifications for Test Films for Subjective Checking of 16-mm and 8-mm Type S Motion-Picture Sound Projectors	Apr.	438
RP 19	Proposed Editorial Revision, Specifications for 8-mm Type R Registration Test Film	Mar.	324
RP 20	Proposed Editorial Revision, Specifications for 16-mm Registration Test Film	Mar.	324
RP 26-1981	Approved, Label Specifications for Quadruplex and Helical-Scan Video Magnetic Tape Recordings	Apr.	439
RP 27.6-1972	Proposed Withdrawal, Specifications for Gray-Scale Operational Alignment Test Pattern for Studio and Field Television Cameras	Dec.	1242
RP 29-1968	Withdrawn, Video Test Tape for Quadruplex Video Frequency Magnetic Tape Recorders Operating at 15 in/s and Practice LBM of SMPTE Recommended Practice RP 6	Apr.	437
RP 39-1970	Reaffirmed, Specifications for Maintaining an Emulsion-In Orientation on Theatrical Release Prints	June	614
RP 40	Proposed Editorial Revision, Specifications for 35-mm Projector Alignment and Screen Image Quality Test Film	May	535
RP 41	Proposed Editorial Revision, Evaluation of Color Films Intended for Television	Sept.	887
RP 42-1970	Withdrawn, Emulsion Orientation of Super 8 Release Prints	Aug.	764
RP 43	Proposed Editorial Revision, Video Test Tape for Quadruplex Video Frequency Magnetic Tape Recorders Operating at 15 in/s and Practice HB of SMPTE Recommended Practice RP 6	Sept.	887
RP 44-1975	Withdrawn, Video Test Tape for Quadruplex Video Frequency Magnetic Tape Recorders Operating at 7.5 in/s and Practice HB of SMPTE Recommended Practice RP 6	Aug.	764
RP 52-1974	Withdrawn, Evaluation of Screen Luminance and Color in Review Rooms Used for Color Television Films	Apr.	437
RP 53	Proposed Revision, Scene-Change Methods for Printing 35-mm, 16-mm and 8-mm Type S Motion-Picture Film	Aug.	769
RP 61	Proposed Editorial Revision, Specifications for Magnetic-Type Azimuth Test Film for 8-mm Type S Sound Reproducers	May	535
RP 64-1981	Approved, Specifications for Sound-Focusing Test Film for 35-mm Sound Reproducers, Photographic Type	July	690
RP 65-1982	Approved, Step Optical Reduction Printing of 35-mm Images to 16-mm Prints and Duplicate Negatives	Dec.	1248
RP 66-1982	Approved, Step Optical Enlargement Printing of 35-mm Images from 16-mm Images	Dec.	1248
RP 67	Proposed Editorial Revision, Specifications for Buzz-Track Test Film for 16-mm Motion-Picture Sound Reproducers, Photographic Type	July	682
RP 96	Proposed Editorial Revision, Specifications for Subjective Reference Tapes for Helical-Scan Video Tape Reproducers for Checking Receiver/Monitor Setup	July	682
RP 101-1981	Approved, Requirements for Recording American National Standard Time and Control Code on Quadruplex Video Tape Recorders	Jan.	132
RP 102-1981	Approved, Frequency Response and Operating Level of Recorders and Reproducers for Audio 2 Record for 2-in Quadruplex Video Magnetic Tape Operating at 15 and 7.5 in/s	Jan.	133
RP 103-1982	Approved, Care and Handling of Video Magnetic Recording Tape	Oct.	1040
RP 104-1981	Approved, Cross-Modulation Tests for Variable-Area Photographic Sound Tracks	June	615
RP 105-1981	Approved, Method for Determining the Degree of Jump and Weave in 70-mm, 35-mm and 16-mm Motion-Picture Projected Images	June	617
RP 106-1982	Approved, Film Tension in 35-mm Motion-Picture Systems Operating Under 0.9 m/s (180 ft/min)	Oct.	1041
RP 110	Proposed, Specifications for an Alignment Test Film for Anamorphic Attachments to 35-mm Motion-Picture Projectors	Apr.	439
RP 111	Proposed, Dimensions of 70-mm, 65-mm and 35-mm Motion-Picture Film Splices	Apr.	441
RP 112	Proposed, Reference Carrier Frequencies, Pre-emphasis Characteristic and Audio and Control Signals for 1/2-in Type H Helical-Scan Video Tape Cassette Recording	July	688
RP 113	Proposed, Supervisory Protocol for Digital Control Interface	Sept.	894
International Standards			
ISO 70-1981	Approved, Cinematography—Monophonic 35 mm Negative Photographic Sound Record on 35 mm Motion-Picture Film—Position and Maximum Width Dimensions	June	618
ISO 486-1982	Approved, Cinematography—16 mm Motion-Picture Film Perforated 8 mm Type R—Cutting and Perforating Dimensions	Oct.	1041
ISO 1700-1981	Approved, Cinematography—8 mm Type S Motion-Picture Raw Stock Film—Cutting and Perforating Dimensions	Feb.	223

<i>Number</i>	<i>Title</i>	<i>Issue</i>	<i>Page</i>
ISO 2968-1981	Approved, Cinematography—Recorded Characteristics for Magnetic Sound Record on 8 mm Type S Motion-Picture Prints and Full-Coat Magnetic Film Perforated 8 mm Type S—Specifications	Mar.	328
ISO 3639-1981	Approved, Cinematography—Projection Reels/Spools 75 to 312 mm Diameter for 8 mm Type S Motion-Picture Film—Dimensions and Specifications	Jan.	134
ISO 3774-1982	Approved, Cinematography—35 mm Motion-Picture Film Perforated 8 mm Type S (1-3-5-7-0) and (1-0)—Cutting and Perforating Dimensions	Sept.	897
ISO 6025-1982	Approved, Cinematography—Photographic-Monophonic Sound Test Film—Specifications	Dec.	1249
ISO 6774-1981	Approved, Cinematography—Spectral Response of Photographic Sound Reproducers for 8 mm Type S Motion-Picture Films—Specifications	May	538

